

**F I N A L**

# REMEDIAL INVESTIGATION REPORT

FORMER MANEUVER AREA A

FORT BLISS

EL PASO, TEXAS

*Prepared for:*

United States Army Corps of Engineers – Tulsa District

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November 2014

**FINAL**

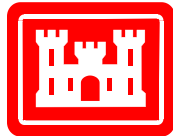
**Remedial Investigation Report  
Former Maneuver Area A**

**Fort Bliss  
El Paso, Texas**

**November 05, 2014**

**Contract No. W912BV-11-D-0016  
Task Order No. 0002**

Prepared for:



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Review Comments Draft Final Remedial Investigation Report Submitted December 23, 2013 Former Maneuver Area A MMRP RI Fort Bliss, Texas  URS Group, Inc. W912BV-11-D-016, Task Order Number: 0002  Comments developed February 6, 2014 Comments received June 3, 3014							
Comment Number	Location			Comment	Reviewer	Response	Reviewer Agreement (A) or Disagreement (D)
	Page	Section	Paragraph / Line				
1	N/A	General		Identifying the specific location of comments is difficult in the report for long paragraphs covering more than one page. The use of line numbers on each page will allow a more specific location for comments, thereby reducing review and response to comments time. Placing line numbers on each page is requested for subsequent documents.	(b) (6)	Comment Noted. The addition of line numbers to each page is not consistent with the format utilized for this project. No changes to the document are recommended.	
2	N/A	Table of Contents		<p>The report is not prepared in accordance with industry standard guidance. USACE Engineering Pamphlet (EP) 1110-1-18, Appendix E provides the industry standard format for documenting the remedial investigation (RI). No guidance on the format for the report is present in the work plan. TCEQ does not object to different formats for the report, but requires specific documentation that is not provided in the report. Examples of missing documentation necessary to verify compliance with the work plan and validate the implementation of the quality control plan (QCP) are:</p> <ul style="list-style-type: none"><li>• Daily hand held detector function checks (Section 3.2.3 of the work plan);</li><li>• Quality control (QC) and quality assurance (QA) inspections. Examples of missing documentation are:<ul style="list-style-type: none"><li>○ Three phase inspection (TPI) reports for the definable features of work (DFW). Section 4.7 of the work plan requires the documentation of the TPI process.</li><li>○ Daily QC reports (DQCRs). Section 4.9 of the work plan says the DQCRs are part of the project record;</li><li>○ QA inspections (CEHNC 948). Inspections by the USACE Ordnance and Explosive Safety Specialist (OESS) provide TCEQ with an increased level of confidence that the work achieved the requirements of the contract and compliance with the work plan.</li></ul></li><li>• Daily production reports. The daily production report template is provided in Appendix F of the work plan and is part of the official record;</li><li>• Non-compliance reports (NCRs);</li><li>• Field change requests (FCRs);</li></ul> <p>The list of missing documentation is not all inclusive. Reports and forms shown in Appendix F are official project records. These reports provide verification of the TPI, QC, and QA processes, changes to the work plan, actions to correct and identify non-compliance, and verify equipment functionality. Including all field records in the report is required. All project records are required to validate the accuracy of the report and compliance with the work plan.</p>	(b) (6)	<p>The requested information will be added to Appendix G of the Final RI Report. The contents of Appendix G will be as follows:</p> <ol style="list-style-type: none"><li>1. Daily Site Reports</li><li>2. Daily Quality Control Reports</li><li>3. Daily Health and Safety Reports</li><li>4. 1348 Forms</li><li>5. Nonconformance and Corrective Action Report</li><li>6. Soil Sample Collection Field Sheets</li><li>7. Chain of Custody’s</li><li>8. DGM Quality Control Review Forms</li></ol>	

3	2-1	2.1		<p>The field activity dates do not identify the DFWs performed during each time period. Field activities were conducted during three phases, 1) November 28, 2012 through December 20, 2012, 2) January 29, 2013 through March 22, 2013, and 3) May 7, 2013 through May 8, 2013. The performance of DFWs requires implementation of the TPI process (Section 4.7 of the work pan), therefore it is necessary to know which DFWs were performed during each field activity time period to determine compliance with the work plan. Comment 2 addresses the importance and need for the DQCRs. Including the DFWs performed for each field activity time period is required to ensure compliance with the QCP.</p>	(b) (6)	DQCRs will be included in an Appendix G of the Final RI Report.	
4	2-2	2.6.1		<p>Changes made to the technical approach are not documented in accordance with the work plan. The digital geophysical mapping (DGM) transect survey spacing was increased from 100-ft. to 150-ft (Section 2.6.1 of the report). Section 4.6 of the work plan identifies the process for changing to the work plan. An FCR documenting this change is not provided in the report. Providing all FCRs in the report is required to facilitate the report review.</p>	(b) (6)	<p>The report indicates “The line spacing was expanded from 100 to 150 feet based on actual finding during the visual survey. In consultation and agreement with the Army, the line spacing was changed to ensure at least three transects would cross within the fragmentation radius of the 4.2 inch mortar and 105mm projectile, but providing flexibility to locate transects in other areas as necessary. Additionally, line spacing was reduced to 50 feet in two areas where evidence of 20mm projectiles were identified during the visual survey.” The change was documented via e-mail correspondence with the Army. The correspondence will be included in the Final RI Report.</p>	
5	2-5, 3-1, 6-3	2.7.1.2, 3.2, 6.2.2		<p>Material documented as safe (MDAS) was not managed in accordance with the work plan, is inconsistent, and certification documentation is not included in the final report. Examples are:</p> <ul style="list-style-type: none"> <li>MDAS chain of custody, and disposition documents are not provided in the report. The MDAS chain of custody and final disposition documents are required in the final report in accordance with Engineering Manual (EM) 1110-1-4009, Section 14-3a(3).</li> <li>Section 3.8 of the work plan requires MDAS segregated as range related debris (RDD) or non-RDD be disposed of at a local landfill or recycler as appropriate, whereas Section 2.7.1.2 of the report says “MDAS segregated as RRD and non-RRD material was left in-place on the MRS.”</li> <li>Section 3.1 of the report says MD identified during the instrument-aided visual survey was recorded and left in-place, whereas Section 3.5 of the report says MD was containerized and shipped for destruction. Section 3.8 of the work plan required the MD be managed in accordance with EM11110-1-4009.</li> <li>Section 6.2.2 “Visual Surveys” of the report says the 360-MD items were classified and left in place per the scope of the work plan, whereas Section 3.8 of the work plan required the MD be managed in accordance with EM11110-1-4009.</li> </ul> <p>Including all MDAS chain of custody and final disposition documentation is required to resolve the first bullet in this comment. Issuance of an NCR for mismanagement of the RDD, non-RDD and MD in accordance with the work plan is required to resolve the subsequent bullets addressed in the comment.</p>	(b) (6)	<p>MDAS packing and shipping info will be included in the Final RI Report. The detector-aided visual survey was completed using MEC and anomaly avoidance techniques; therefore no material was removed from the MRS during that activity. The text will be revised to clarify.</p> <p>RRD and non-RRD was left on site during the intrusive investigation. However, initiation of an NCR would be incomplete as no corrective action will be implemented, therefore no NCR will be completed. The text will be revised to reflect that items left on site during the intrusive investigation were largely other debris and no item left on site poses an explosive hazard.</p>	



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6	3-2 3-3	3.2 3.3	<p>The discovery of MEC and the actions taken after the discovery of MEC were not in accordance with the USACE, Army, and DOD directives. Examples are:</p> <ul style="list-style-type: none"><li>• DOD 6055.9-M-V7-E4.5.1 requires an approved explosive safety plan (ESP) prior to intentional contact with MEC or the service-level explosives safety office review and approval is pending DDESB review and approval. The service-level explosive safety office was reviewing the ESP and had not approved the ESP as of February 19, 2013. Therefore, DDESB approval was not pending. Identifying the 4.2-in. mortar on February 14, 2013 showed the presence of munitions at the site (intentional contact), but work continued without an approved ESP.</li><li>• One 4.2-in. mortar was identified on the surface on February 14, 2013 during reacquire operations. Section 3.2 of the report says the US Army EOD conducted disposal of the mortar on February 19, 2013 since the ESP was under review by the United States Army Technical Center for Explosives Safety (USATCES). The report does not say if security for the mortar was necessary in accordance with Section 3.7 of the work plan. Not securing MEC once discovered is not in accordance with USACE EM 385-1-97, <i>Explosives Safety and Health Requirements Manual</i> (2008), Section I.2.A.02. All MEC upon discovery must be destroyed the same day or secured until proper disposal is conducted is required. This important public safety issue is not documented in the report.</li><li>• Previously, TCEQ reviewed DQCRs from January 29, 2013 through March 22, 2013. The chronological order of events are:<ul style="list-style-type: none"><li>○ Intrusive operations started on February 21, 2013. It is unknown if an approved DDESB ESP was received prior to intrusive operations beginning. Based on the identification of MEC on the surface direct contact with MEC was highly probable.</li><li>○ The DQCRs from January 30, 2013 to March 21, 2013 say “MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.”</li><li>○ Four additional 4.2-in mortars were recovered during intrusive operations between February 22 and March 21, but were held until March 22, 2013 for disposal. The report does not identify if adequate security measures in accordance with the ESP and USACE Directives for these four MEC were implemented during nights and weekends. The duration munitions were potentially left unsecured was 30-calendar days.</li><li>○ The contractor destroyed the four mortars on March 22, 2013.</li></ul></li></ul> <p>The frequency for disposal operations are not stated in the work plan, but delivery of explosives is stated on an “as needed basis”. Based on the timeline of events, TCEQ has a serious concern with how the public safety was ensured from the point of MEC discovery to proper disposal. Including the approved ESP as an appendix in the final report is required as part of the official project records. Also, an NCR for failure to secure MEC after discovery in accordance with USACE Safety Policy is required.</p>	<ul style="list-style-type: none"><li>• Disagree; the project team was completing an activity following MEC and anomaly avoidance procedures. The MEC item was inadvertently discovered as the team was walking to the investigation area and avoided, therefore it was not intentional contact. Since the ESP was still in the approval process, Fort Bliss EOD was contacted to take custody and respond to the discovery. Field work continued as planned implementing MEC and anomaly avoidance procedures.</li><li>• All MEC items discovered were located within the MRSs, in a remote, fenced area with restricted access. UXO personnel visually checked each item on a periodic basis. Through discussions with the OEES, the security procedures were considered appropriate. The text will be revised to clarify the security measures that were implemented.</li><li>• The ESP was approved on February 20, 2013. The final ESP and approval letter will be included as an Appendix to the final report.</li><li>• Disagree. The items were secure in remote, fenced areas with restricted access and periodically checked for security by UXO personnel. An NCR is not required, however, the text will be revised to reflect the security procedures that were implemented.</li></ul>	
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7	3-3	3.2 Table 3-1 Table 3-2 Figure 3-3		<p>The tables do not accurately show the acreage and grid areas investigated and are inconsistent. Area A is used as an example to demonstrate the inaccuracies, but the deficiency is applicable to all areas shown in the table. Examples are:</p> <ul style="list-style-type: none"> <li>Table 3-1,” DGM Investigation Areas”, shows the acreage and grids unit of measure as “Acres(squ. ft.)” and the “Grids (squ. ft)” respectively. The total acreage for Area A is 115, whereas the grid shows 200. How is it possible that the grids (squ. ft.) exceed the entire square feet of Area A? Correcting the table to clearly show the acreage for each area is required to be technically correct.</li> <li>Table 3-1, shows the grid unit of measure as “Grids (squ. ft.)” The total for DGM grids in Area A is “200 squ. ft.”, Figure 3-3 shows two DGM grids (A1 and A2) were collected. The grid dimensions are 100-ft. x 100-ft. (Section 3.2 of the report). One, 100-ft. x 100-ft. grid is equal to 10,000 squ. ft. or 0.229 of an acre. The total grids (squ. ft.) should show 20,000 squ. ft. or 0.459 acres to be technically correct. Recalculating the area collected using DGM is required to be technically correct.</li> <li>The total number of DGM anomalies identified in Table 3-1 shows 1,664, whereas Table 3-2, “Summary of Intrusive Investigation Results” shows 1,745 digs. The difference may be Table 3-2 includes transect and DGM targets investigated, whereas Table 3-1 shows DGM targets only. Explaining this in a note in the table will eliminate any confusion.</li> </ul>	(b) (6)	<ul style="list-style-type: none"> <li>The units following acreage are incorrect. The number provided is the acreage of each area. The table will be revised accordingly.</li> <li>The square footage of the grids will be revised accordingly.</li> <li>The total number of targets identified for investigation was identified in Table 3-1 a as 1,664. The 1,745 identified in Table 3-2 refers to the total number of anomaly types identified as a result of the investigations, not the number of total digs; however, the quantities will be verified and a note will be added to Table 3-2 explaining this discrepancy.</li> </ul>	
8	6-2	Table 3-2 6.2		<p>The amount and locations MEC was recovered is inconsistent. Table 3-2 of the report says five MEC were recovered in Area B, C, and D, whereas Section 6.2 of the report, “Intrusive Investigation Results” says 4 MEC in Areas A, B, C, and D were recovered. Correcting the number of MEC recovered and the correct areas is required to make the report consistent.</p>	(b) (6)	<p>The locations of and quantity of MEC items between Table 3-2 and Section 6.2 will be reviewed for consistency. A footnote will be added to Table 3-2 indicating that one of the MEC items was discovered during the anomaly reacquisition and four MEC items were discovered during intrusive investigation activities.</p>	
9	5-1 3-3	5.1 3.1 3.3		<p>The conceptual site models (CSMs) are incomplete or not provided. Examples are:</p> <ul style="list-style-type: none"> <li>No CSM is provided for MRS FTBLS-002-R-03. The Army RI guidance (November 2009), Section 5.7.1 says a CSM is provided for each MRS. At this point in the CERCLA process separate CSMs and CSM diagrams are necessary and required to evaluate specific munitions response site (MRS) release mechanisms, current land use, and future land use. The development of separate CSMs and CSM diagrams for each MRS is required.</li> <li>The MRS FTBLS-002-R-01 CSM shown is incomplete. The CSM describes the CSM elements (source, receptor, and pathway potential) and a CSM diagram, but no information on the ecological, topographic features, munitions identified, current and future use, and soil characteristics is stated in the CSM. EM1110-1-4009, Section 12-2 and EM1110-1-1200 says the CSMs purpose is to communicate and describe the current state and knowledge of the project property to the project team. The focus of the RI is to validate the preliminary CSM and provide updated information about the site for the project team to base future decisions. An example of this is the historical records review (HRR), which reports Maneuver Area A was used for aerial bombing. The evidence of practice bombs (Section 3.1) and components from aerial bombs (Section 3.3) validates the HRR data and the preliminary CSM. Revising the CSM to include all that is known about the site is required to facilitate decision-making and evaluation in the feasibility study (FS).</li> </ul>	(b) (6)	<ul style="list-style-type: none"> <li>The CSM for MRS FTBLS-002-R-03 is included as Figure 5-2 of the report.</li> <li>Detailed information on site topography, soils, geology, wildlife etc. is included in Section 1 of the report. However, the discussion of the CSM is Section 5.1 will be revised to update any changes in the CSM from previous versions.</li> </ul>	
10	5-3	5.3.1		<p>An unsubstantiated statement regarding MEC probability is included in the report. The MEC probability for MRS FTBLS-002-R-01 is stated as “low”. Five MEC (4.2-in. mortars) where recovered within the MRS, therefore the probability of finding MEC is present, that is all that can be stated at this time. Removing the reference to the probability of MEC in MRS FTBLS-002-R-01 is recommended.</p>	(b) (6)	<p>The statement will be deleted.</p>	

(b) (6)

11	5-5	5.3.1		<p>A MEC hazard assessment (HA) is not provided for MRS FTBLS-002-R-03. Finding no MEC does not preclude the need for the MEC HA process. The EPA guidance “Munitions and Explosives of Concern Hazard Assessment Methodology” (October 2008), Section 1.3 says the “MEC HA addresses human health and safety concerns associated with potential exposure to MEC at an MRS.” Table 2-2, “Framework Elements of the MEC HA” defines inputs to the MEC HA as a “series of factors that describe the characteristics of an MRS in terms of the components of the explosive hazard.” Therefore, finding evidence (munitions debris, (MD)) of MEC is sufficient to implement the MEC HA process. An example is finding aerial bomb components or mortar base plates from a 4.2-in. mortar, but no complete high explosive (HE) bombs or mortars. The MEC HA is developed assuming a conservative hazard assessment and provides decision-makers with the appropriate data to render a decision. Developing a MEC HA for MRS FTBLS-002-R-03 where MD is present is required in accordance with the EPA Guidance.</p>		<p>Disagree. A MEC HA was developed based on the MEC identified at the MRS. Cased munitions information (munition type, munitions size, munition units, munitions mark/model, energetic material type, fuze type, fuze condition) was input into the MEC HA based on the MEC identified by UXO personnel during the completion of field work. The series of input factors in question (referred to in Table 2-2) include energetic material type (taken from munitions information), the ESQD (derived from the MEC with the largest ESQD), accessibility to the site, contact hours, and various MEC input categories. All input categories are based on MEC identified by UXO personnel. As no MEC was identified, the score would need to be developed based on MD fragments identified. MD cannot be scored for size, energetic material type, fuze type, etc. unless it is assigned the characteristics that would be attributed to the item if it had been classified as MEC. As the specific data for the MEC HA cannot be obtained from MD identified (model, fuze type, condition, etc.), the MEC HA cannot be properly completed based on MD information. Should MEC be discovered at this MRS at a later date, a MEC HA would be developed to assess the risk. However, based on the current absence of MEC in this MRS, a MEC HA is not warranted. The application of the MEC HA process presented in the RI is consistent with the application of the MEC HA process at similar army facilities. No changes to the text are recommended.</p>	
12	N/A	Figure 5-1		<p>The CSM diagram for MRS FTBLS-002-R-01 is not logical. Figure 5-1 shows the potential for exposure to MEC on the surface and subsurface as a potentially complete or complete for future site and construction workers, but not for current site and construction workers. If a future receptor has the potential of a complete pathway to a hazard, why does the current receptor not have the same potential? Reevaluation and revision of the CSM diagram is required to correctly identify the receptors potential exposure to surface and subsurface MEC.</p>		<p>Receptors are typically classified as current if evidence of the presence of the receptors is identified during the completion of the RI. No current site worker, construction worker, or on-site residents were identified at the MRS. Therefore, these receptors were identified as potential future receptors. Evidence of current hunters/hikers and trespassers was observed at the time of the site visit. Therefore, these receptors were identified as current and future receptors. No changes will be made to the CSMs.</p>	
13	6.5	6.4		<p>A no further action (NFA) for MRS FTBLS-002-R-03 is not in accordance with DOD policy 6055.9-M-V7.E3.5. TCEQ and DOD agree public education programs for munitions hazards is required for property not under DOD control. TCEQ views this as further action, therefore MRS FTBLS-002-R-03 should be carried forward to the FS, appropriate alternatives developed, and evaluation of the alternatives protectiveness for the intended future land uses assessed. Including MRS FTBLS-002-R-03 in the FS is required to ensure the protection of human health and the environment.</p>		<p>MRS FTBLS-002-R-03 will be carried forward to the FS stage and alternatives will be developed and evaluated. The text will be revised to reflect the change.</p>	

14	N/A	App A		<p>Documentation of the project DGM QC and project data files is not provided in viewable formats, is incomplete, or deficiencies are noted with no corrective action provided in the report. Examples are:</p> <ul style="list-style-type: none"><li>• The “Daily Tests and IVS Demonstration” folder contains .gdb format files that are not viewable. This precludes reviewers from reviewing daily digital geophysical sensor testing results. Providing the files in a viewable format is required to allow adequate review and ensure the daily tests meet the performance criteria shown in Table 4-2 of the work plan.</li><li>• The NCR process was not implemented in accordance with work plan. Examples are:<ul style="list-style-type: none"><li>○ The “Coverage Table” identifies 6-grids failed to achieve the DGM coverage criteria performance metric. The metric requires a &gt;90-percent coverage at a 0.75-meter line spacing for the grid coverage in accordance with Table 4-1 of the work plan. A total of 26-DGM grids were collected during the project. The 6-grid failures constitute a 23-percent failure rate for the DGM coverage metric. An NCR is not included in the report. An NCR identifying why the metric was not achieved in accordance with Section 4.13 of the work plan is required.</li><li>○ Grid “C3” is listed twice in the coverage table. It is assumed one of the grids identified in the table is actually “C2” based on Figure 3-5 in the report. Correcting the grid identification numbers in the table will address this comment.</li><li>○ The “Geodetic Functionality Table” identifies 14 failed daily QC tests out of 23 tests. This equates to a 60-percent failure rate for the metric. An NCR is not included in the report. An NCR identifying why the metric was not achieved in accordance with Section 4.13 of the work plan is required.</li></ul></li><li>• The “Seed Item/Test, Intrusive Results, and Reacquisition Tables” do not identify the unit of measure for the off-set. Including the unit of measure in the tables will address this comment.</li><li>• The anomaly resolution process is not documented in accordance with Section 3.4.5.1 of the work plan. No entries documenting the QC acceptance recheck or “QC Status” in the “Intrusive Results Table” is shown. In accordance with Section 3.4.5.1 the post dig target anomaly resolution verification check, verifier’s initials, and date are required on the intrusive investigation worksheet also, referred to as a dig sheet. Documenting the anomaly resolution process in accordance with the work plan is required.</li><li>• Daily QC tests required by Section 3.4.3.4 of the work plan that were not located in the report are.<ul style="list-style-type: none"><li>○ Personnel test;</li><li>○ Cable Shake.</li></ul></li></ul>	<p>The .gdb file format is native to Geosoft Oasis Montaj, industry standard software for geophysical data processing. These data were delivered in accordance with Section 7.3 of the Work Plan. The information is also available in the appropriate tables in the project database.</p> <p>Grid coverage, as specified in the SOP No. 7 in the Work Plan, states “Areas within established grids that cannot be mapped because of terrain and man-made impediments such as fences will be noted in the geophysical logbook. In a complete grid survey, 100-percent coverage of the area is the goal, but due to physical limitations, some number less than 100-percent may actually be collected.” This information is listed in the Comments section of the Coverage Table.</p> <p>Concur. Grid C3 is listed twice; the first entry should read C2. The project database will be updated to reflect this.</p> <p>There were no failures in the Geodetic Functionality Table. The acceptance criteria are 25cm and the largest offset observed in the daily IVS tests was 21 cm.</p> <p>Concur. The unit of measure is not a field in the standard Corps database. The Project Table lists the coordinate system and distance units, which are in meters for this project. Intrusive offsets however were estimated in inches and will be noted as such in the project database.</p> <p>Concur. QC acceptance was documented in the DQCRs for the project but this information was not populated in the project database. It will be added to the Intrusive Results Table.</p> <p>The standard USACE database does not have provisions for these tests so they were not populated. The Personnel Test and Cable Shake were performed on a daily basis and the results were digitally recorded and delivered with the rest of the daily test data.</p>	
15	N/A	App B		<p>The photograph incorrectly states during which DFW the MEC was located. DGM target B2009, 28 says the 4.2-in. mortar was identified during the visual survey DFW. The mortar based on the DGM target number and the characteristic in the photograph was identified during intrusive investigation DFW. Identifying the correct DFW when discovery was made will address this comment.</p>	<p>The description will be modified to indicate the MEC item was identified on the ground surface following the DGM mapping by the reacquisition team.</p>	

16	N/A	App D		<div>(b) (6) 6</div> <div>The MRS FTBLS-002-R-01 MEC HA is not prepared in accordance with the EPA guidance. Examples are:<ul style="list-style-type: none"><li>• The references identified in Section A of the MRS FTBLS-002-R-01 MEC HA are inconsistent with Section 1.8 of the work plan. The range inventory, SI (2007) and HRR (2009) are not listed in the MEC HA as references. In addition, DDESB TP-16 should be identified as it is used to identify the fragmentation area for the 4.2-in. mortars. All data used to develop the MEC HA is required in Section A.</li><li>• Questions in the MEC HA are not adequately addressed. Section B, question 6 of the MEC HA asks “How certain are the site boundaries?” The response “The current site boundaries were recommended in the conclusions and recommendations sections of the 2013 RI.” does not answer the question of the boundary certainty. Section 3.2 of the work plan says the visual sampling plan (VSP) design for the detector-aided visual survey will provide a 95-percent confidence level of finding an impact area with a 240-ft. radius and areas of elevated surface and subsurface anomalies. The VSP confidence level is a quantitative assessment of the site boundaries certainty and should be annotated in the MEC HA.</li><li>• Consistent identification of the reference used to derive the MEC HA section data is not being documented. An example is Section B of MRS FTBLS-002-R-01 does not identify which reference the site description was derived from. Identifying the reference for all MEC HA section inputs will address this comment.</li><li>• The “Cased Munitions Munitions” section of the MEC HA for MRS FTBLS-002-R-01 does not include the practice bombs found during the RI. Section 3.1 and 3.3 of the report identify that practice bombs were recovered during the RI. No further information regarding the practice bombs type or nomenclature is provided in the report. Practice bombs may contain spotting charges with black powder. Including all explosive hazards recovered during the RI is required in order to assess the MEC hazards at the site.</li></ul></div>	<div>(b) (6) 6</div> <div><ul style="list-style-type: none"><li>• Section 1.8 of the WP describes the soils present at the site. It is unclear which section the commenter wished to reference. Historical data from the 2007 SI and the 2009 HRR are summarized in the RI report. As the RI report is included in the reference list, the inclusion of the 2007 SI and 2009 HRR are unnecessary. DDESB TP-16 will be added as a reference.</li><li>• Question 6 of Section B will be amended to include the data provided in the comment.</li><li>• References will be added to applicable sections of the MEC HA.</li><li>• Practice bombs were identified as MD, not MEC. Therefore, they were not included in the cased munition information as this is reserved for MEC items. No changes will be made.</li></ul></div>	
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## List of Acronyms

°F	Degrees Fahrenheit
AEC	Army Environmental Command
bgs	below ground surface
BIP	blown-in-place
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CHE	Chemical Warfare Materiel Hazard Evaluation
CHF	Contamination Hazard Factor
CSM	Conceptual Site Model
CWM	Chemical Warfare Materiel
DDESB	Department of Defense Explosives Safety Board
DGM	digital geophysical mapping
DoD	Department of Defense
e <sup>2</sup> M	engineering environmental Management
EHE	Explosive Hazard Evaluation
EM	Engineering Manual
EM61	Geonics, Ltd. EM61 Time-Domain Electromagnetic System
EOD	Explosive Ordnance Disposal
ESP	Explosives Site Plan
FUDS	formerly used defense sites
GIS	geographic information system
GPS	global positioning system
H	High
HA	Hazard Assessment
HAWK	Federal Republic of Germany Air Defense School
HE	high explosive
HHE	Health Hazard Evaluation
HRR	Historical Records Review
ID	identification
IRP	Installation Restoration Program
IS	Incremental Sampling
IVS	instrument verification strip
L	Low
LANL	Los Alamos National Laboratory

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M	Medium
MC	Munitions Constituents
MD	Munitions Debris
MDAS	material documented as safe
MEC	Munitions and Explosives of Concern
MGFD	munitions with the greatest fragmentation distance
mm	millimeter
MMRP	Military Munitions Response Program
MPF	Migration Pathway Factor
MPPEH	material potentially presenting an explosive hazard
MRA	Munitions Response Area
MRS	Munitions Response Site
MRSPP	Munitions Response Site Prioritization Protocol
MSD	minimum separation distance
NAD83	North American Datum of 1983
NATO	North Atlantic Treaty Organization
NEW	net explosive weight
NFA	No Further Action
No.	number
NRRD	non-range related debris
OE	Ordnance and Explosives
OESS	Ordnance and Explosives Safety Specialist
PA	Preliminary Assessment
PM	Project Manager
PWS	Performance Work Statement
QC	Quality Control
RF	Receptor Factor
RI	Remedial Investigation
ROE	right of entry
RRD	range-related debris
RSL	Regional Screening Levels
SARA	Superfund Amendments and Reauthorization Act
SI	Site Inspection
SU	sampling unit
SUXOS	Senior Unexploded Ordnance Supervisor
TAL	Target Analyte List

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TCEQ	Texas Commission of Environmental Quality
TPP	Technical Project Planning
TRRP	Texas Risk Reduction Program
TSD	team separation distance
U.S.	United States
UFP-QAPP	Uniform Federal Policy – Quality Assurance Project Plan
URS	URS Group, Inc.
USAADC	United States Army Air Defense Center
USACE	United States Army Corps of Engineers
USAESCH	United States Army Engineering and Support Center, Huntsville
USATCES	United States Army Technical Center for Explosives Safety
USEPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator
UXO	unexploded ordnance
UXOQCS	Unexploded Ordnance Quality Control Specialist
UXOSO	Unexploded Ordnance Safety Officer
VSP	visual sample plan

## **1.1 INTRODUCTION**

This Remedial Investigation (RI) report for Munitions Response Site (MRS) Former Maneuver Area A (FTBLS-002-R-01) has been prepared by URS Group, Inc. (URS) for the United States Army Corps of Engineers (USACE) Tulsa District in accordance with the Performance Work Statement (PWS) under Contract Number (No.) W912BV-11-D-0016.

The RI was performed pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and is part of the overall remedial action process. The RI was conducted for the Former Maneuver Area A at Fort Bliss near the town of El Paso, Texas (**Figure 1-1**) under the United States (U.S.) Army Environmental Command (AEC) Military Munitions Response Program (MMRP).

## **1.2 PURPOSE AND OBJECTIVES**

The primary objective of the RI was to collect sufficient information to select the appropriate, cost effective remedial action to address munitions and explosives of concern (MEC) and munitions constituents (MC) that resulted from past range usage, so that threats to human health and the environment can be diminished. The specific work performed to accomplish the primary objective included:

- Investigation and characterization of the nature and extent of MEC and its potential explosive safety hazards;
- Investigation and characterization of the nature and extent of MC in areas where contamination related to explosives in site media (e.g., surface soil) MEC or munitions debris (MD) were identified at densities indicating range use in a previously unsampled location;
- Destroy and dispose of discovered MEC and MD during the investigation/ characterization process; and
- Perform a hazard assessment for MEC and a human health and ecological risk screen for MC.

The RI resulted in sufficient information to adequately characterize the site for the purpose of developing and evaluating remedial alternatives. Secondary goals of the RI included collecting information to update the Munitions Response Site Prioritization Protocol (MRSP), updating the Conceptual Site Model (CSM), and providing recommendations for modifications to future land use.

## **1.3 INSTALLATION LOCATION AND DESCRIPTION**

Fort Bliss is located in portions of Texas and New Mexico, near the town of El Paso, Texas. Of the approximately 1.12 million acres encompassed by the Fort Bliss installation, twelve percent

of the installation's total land area is in El Paso County in west Texas, and the remaining 88 percent is in the New Mexico counties of Doña Ana and Otero. Former Maneuver Area A is located outside, but immediately adjacent to, the southeast installation boundary within El Paso County, Texas. **Figure 1-1** shows the boundaries of Former Maneuver Area A, the location of the Fort Bliss, and the surrounding communities.

Former Maneuver Area A encompasses 24,477 acres divided into numerous parcels of varying size with approximately 2,516 landowners, although 83 percent of the MRS is owned by 23 landowners. The majority of the area is undeveloped, but portions of Former Maneuver Area A are currently developed with residential homes, commercial business, ranching, and light industry. None of the land associated with Former Maneuver Area A is currently owned or utilized by Fort Bliss (TLI Solutions 2011) (URS 2013).

The Former Maneuver Area A MRS was originally part of an expansion area acquired in phases by Fort Bliss beginning in 1939. The expansion area acquisitions were referred to as Maneuver Area No. 1 and Maneuver Area No. 2. By 1980, Fort Bliss had relinquished control of a large part of these two areas. Those parts of Maneuver Areas No. 1 and No. 2 that are no longer controlled by Fort Bliss and are outside the Fort Bliss installation boundaries have been recently referred to as the Former Maneuver Area Munitions Response Area (MRA). The Former Maneuver Area MRA was reported to encompass 73,528.6 acres, but the boundaries of the Former Maneuver Area MRA were evaluated during a 2009 Historic Records Review (TLI Solutions 2009) resulting in modified boundaries and a corrected acreage of 72,520.

Prior reports indicate the Former Maneuver Area MRA was used for various military training exercises from 1939 into the 1970s. The entire acreage was relinquished by the Army in 1980. A subsequent Site Inspection (SI) resulted in the area being divided into Former Maneuver Area A and Former Maneuver Area B (TLI Solutions 2011). Former Maneuver Areas A and B are considered to be discrete locations within the Former Maneuver Area MRA and are, therefore, referred to as MRSs. Former Maneuver Area A was targeted for further investigation of MEC. Former Maneuver Area B was recommended for No Further Action (NFA). The location of these two MRSs relative to one another is shown on **Figure 1-2**. The boundaries of Former Maneuver Area A are depicted on **Figure 1-3**.

## 1.4 PHYSICAL AND ECOLOGICAL CHARACTERISTICS OF THE STUDY AREA

### 1.4.1 Surface Topography

Fort Bliss is located within the Basin and Range physiographic province characterized by narrow, linear faulted mountain chains separated by relatively flat valleys or basins. Eastern portions of Former Maneuver Area A are bordered by the Hueco Mountains, a north-south trending mountain range. Within the site area, the Hueco Mountains reach elevations of between 5,000 and 5,500 feet above sea level. The elevated mountain areas transition to relatively flat basins having elevations typically between about 4,200 to 4,500 feet above sea level. Topographic gradient is generally downward toward the west across Former Maneuver Area A,

with exception of some isolated, elevated mountains that are separate from the main Hueco Mountain chain. **Figure 1-3** depicts physiography of the Former Maneuver Area A vicinity using aerial photography. **Figure 1-4** shows the surface topography of the area containing Former Maneuver Area A.

### **1.4.2 Climate**

Fort Bliss lies within an arid to semi-arid climatic region that receives an average annual precipitation amount of between 9 and 10 inches. Rainfall for the wettest months of the year (July, August, and September) does not typically exceed 2 inches per month. Daily high/low temperature ranges during the coldest months (December and January) are between about 30 degrees Fahrenheit (°F) to 60°F. Daily high/low temperature ranges during the hottest months (June, July, and August) are between about 70°F to 95°F (rssWeather 2011). Prevailing winds are from the south during the summer and from the north during the winter (Weather Explained 2001).

### **1.4.3 Soils**

Soils within and proximal to Former Maneuver Area A can be separated into two general categories based on two distinct physiographic environments. One physiographic environment is the intermountain valleys/basins where soils are characteristically silty, sandy, and gravelly loams that are shallow to deep, nearly level to very steep, and well drained to excessively drained having formed from alluvium (originating from nearby mountain ranges) and eolian material. The second physiographic environment is the Hueco Mountains and their footslopes where soils are either absent due to direct limestone outcrop exposures or characteristically stony loams that are shallow (typically less than 5 inches) and well-drained. Soils within both physiographic environments are generally alkaline and calcareous having been formed principally from the weathering of limestone derived from the Hueco Mountains (USDA 1971).

### **1.4.4 Geology**

Former Maneuver Area A is within the Basin and Range physiographic province of western North America (Seager 1981). Most of Former Maneuver Area A is situated over a structural basin filled with Quaternary-aged sediments derived from the Hueco Mountains to the east. The basin is called the Hueco Bolson and consists of a thick sequence of layered fluvial, alluvial fan, evaporite, and eolian sediments (Sheng, et.al 2001). The Hueco Mountains reside along the eastern edge of Former Maneuver Area A. Outcrops in the Hueco Mountains are primarily of Pennsylvanian and Permian-aged limestone (U.S. Army, 1984). Associated with the Hueco Mountain range are remnants of igneous plutons that intruded into the area later during the late Tertiary Period following Basin and Range formation. The outcrops at Hueco Tanks State Park and to the northwest of the park (within Former Maneuver Area A) represent igneous plutons that intruded into the area during that time (Cornet 2005).

### 1.4.5 Hydrogeology

The Hueco Bolson aquifer is the saturated portion of the Hueco Bolson. The Hueco Bolson aquifer consists of unconsolidated to slightly consolidated deposits composed of fine- to medium-grained sand with interbedded lenses of clay, silt, gravel, and caliche. The sediments have a maximum thickness of 9,000 feet. However, the bottom part of the Hueco Bolson is primarily clay and silt. Therefore, only the top several hundred feet produce good-quality water. Depth to groundwater in the Hueco Bolson in the vicinity of El Paso is reported to be between 250 and 400 feet below ground level. Another similar aquifer located on the west side of the Franklin Mountains and west of Fort Bliss is called the Mesilla Bolson aquifer. Fort Bliss reportedly obtains or has obtained groundwater from both aquifers but also obtains water from surface water sources (Sheng, et.al 2001).

### 1.4.6 Hydrology

Major surface water bodies do not reside within or proximal to Former Maneuver Area A. Waterways carry surface water generally westward across the intermountain basin where the drainage water evaporates or infiltrates downward into the subsurface before it can reach the Rio Grande River. Playas exist sporadically and will hold surface water for brief periods of time (up to a few weeks) following precipitation events. Playas remain dry for most of the year but are able to briefly hold water without significant downward percolation due to their high silt and clay content (Fort Bliss 2001).

### 1.4.7 Vegetation

Basin areas isolated from topographically elevated mountains are characterized by basin desert shrublands. Common plant varieties found in basin desert shrubland areas are honey mesquite (*Prosopis glandulosa*) and four-winged saltbrush (*Atriplex canescens*) with mesa dropseed (*Sporobolus flexuosus*) existing sparsely as undergrowth. These plants are associated with coppice sand dunes found throughout basin areas. Sandsage (*Artemisia filifolia*) can be common in some basin desert shrublands areas (Fort Bliss 2001).

As topographic elevations increase on alluvial fan toe slopes of mountainous areas, desert shrublands vegetation gives way to species dominated by tarbush (*Flourensia cernua*), creosotebush (*Larrea tridentate*), and bush muhly (*Muhlenbergia porter*). Tobosagrass (*Hilaria mutica*) and burrograss (*Scleropogon brevifolius*) can also be common. The highest elevations within Former Maneuver Area A are characterized by rocky slopes (Hueco Mountains and unnamed mountains) that are dominated by lechugilla (*Agave lechuguilla*) and creosote bush (*Larrea tridentate*). Grasslands are supported on high elevation alluvial deposits where sideoats grama (*Bouteloua curtipendula*) and black grama (*Bouteloua eriopoda*) are common. Other vegetation varieties that can exist at high elevations are curleyleaf muhly (*Muhlenbergia setifolia*), skeletonleaf goldeneye (*Viguiera stenoloba*) ocotillo (*Fouquieria splendens*), common stool (*Dasyliirion wheeleri*), and soaptree yucca (*Yucca elata*) (Fort Bliss 2001).



### 1.4.8 Wildlife

Invertebrates identified on and near Former Maneuver Area A include grasshoppers, beetles, flies, butterflies, ants, and termites. Ants and termites are the most numerous invertebrates and play important roles in affecting soil properties and consuming vegetation. Insect larvae and shrimp-like crustaceans (*Eulimnadia texana*) hatch during rainy seasons in playas and arroyos (Fort Bliss 2001).

Amphibian species on and near Former Maneuver Area A are primarily toads. The most diverse reptile group is lizards. The western marbled whiptail (*Cnemidophorus marmoratus*) and the Texas horned lizard (*Phrynosoma cornutum*) are most common with the leopard lizard (*Gambelia wislizenii*), striped whiptail (*Cnemidophorus inornatus*), side-blotched lizard (*Uta stansburiana*), and marbled whiptail lizard (*Cnemidophorus marmoratus*) being common but more prevalent in desert shrubland habitat. Almost as diverse as lizards are snakes. The western diamondback rattlesnake (*Crotalus atrox*) and bull snake (*Pituophis catenifer sayi*) are most common with the Texas long-nosed snake (*Rhinocheilus lecontei*) common but more prevalent in desert shrubland habitat (Fort Bliss 2001).

Birds provide the highest number of species within an animal group. Over 300 bird species have been recorded for Fort Bliss. Species numbers restricted to Former Maneuver Area A are not known. Most species are observed only during annual migrations or reside at Former Maneuver Area A seasonally, rather than year-long. Indigenous birds most common to desert shrub habitat are the black-throated sparrow (*Amphispiza bilineata*), western kingbird (*Tyrannus verticalis*) Scott's oriole (*Icterus parisorum*), and ash-throated flycatcher (*Myiarchus cinerascens*). The most common indigenous bird species associated with arroyos and upland habitats are the black-throated sparrow, northern mockingbird (*Mimus polyglottos*), verdin (*Auriparus flaviceps*), brown-headed cowbird (*Molothrus ater*), mourning dove (*Zenaida macroura*), and ash-throated flycatcher. The Swainson's hawk (*Buteo swainsonii*) and turkey vulture (*Cathartes aura*) are the most common raptors in the desert shrublands. Other birds of prey (falcons, hawks, eagles) may be seen in conjunction with mountainous areas (Hueco Mountains). Other bird species common to mountainous areas are the cactus wren (*Campylorhynchus brunneicapillus*), canyon towhee (*Pipilo fuscus*), house finch (*Carpodacus mexicanus*), and varieties of quail, in addition to mourning dove and northern mockingbird which also reside in desert shrubland habitat (Fort Bliss 2001).

Rodent species are numerous and widespread in the MRS. The most common rodents are the silky pocket mouse (*Perognathus flavus*) and Merriam's kangaroo rat (*Dipodomys merriami*). Rodent populations are greater in and along arroyos than adjacent upland habitats. The desert cottontail (*Sylvilagus audubonii*) and black-tailed jackrabbit (*Lepus californicus*) are common, particularly in desert shrubland habitat (Fort Bliss 2001).

Predators found at the MRS consist of the coyote (*Canus latrans*), kit fox (*Vulpes macrotis*) badger (*Taxidea taxus*), and bobcat (*Lynx rufus*). Mountain lions (*Puma concolor*) are rare at Former Maneuver Area A. Mountain lions and black bears are more likely to reside in

mountainous regions further north (such as the Sacramento Mountains, Organ Mountains, and San Andreas Mountains) (Fort Bliss 2001).

Big game animals occurring at the MRS are mule deer (*Odocoileus hemionus*) and pronghorn antelope (*Antilocapra Americana*). Oryx gazelle (*Oryx gazella*), a native African species, have been introduced into New Mexico and have become common in northern regions of Fort Bliss but are not likely to be seen at Former Maneuver Area A (Fort Bliss 2001).

Information regarding threatened and endangered species with potential to occur in Former Maneuver Area A was obtained from the United States Fish and Wildlife Service and Texas Parks and Wildlife Department and is summarized in **Table 1-1**. This table contains threatened/endangered species that are reported to exist or potentially exist in El Paso County and require vegetative habitats that exist at Former Maneuver Area A as described in **Section 1.4.7**.

## 1.5 CULTURAL RESOURCES

Limestone outcrops in the Hueco Mountains have been conducive to the formation of caves and rock shelters, many of which were used by prehistoric people. Archeological findings have been associated with the caves and rock shelters. Other discoveries of archeological significance have been made remote from natural rock shelters (Fort Bliss 2001).

The Texas Historical Commission Archeological Sites Atlas was queried to ascertain specific archeological site information for Former Maneuver Area A. Twenty archeological sites have been documented as being within Former Maneuver Area A based on geographic information system (GIS) coordinate data. All but three of the 20 sites are documented as prehistoric artifact scatters, camps, or habitation sites. The other three sites are classified as “unknown”. Two of the 20 sites have been determined eligible for listing in the National Register of Historic Places and should be avoided or protected. The listing of archeological sites documented to be within Former Maneuver Area A, as obtained from the Texas Historical Commission, is presented in **Table 1-2** (URS 2013).

## 1.6 INSTALLATION HISTORY

Initially established in 1848, the military post was named Fort Bliss in 1854. The post moved to several locations in the El Paso area between 1854 and 1890 and changed names during that time. The current Fort Bliss location was acquired in 1890 and encompassed about 1,272 acres at that time. The expansion of Fort Bliss at its current location began in 1914 (TLI Solutions 2009).

During the 1920s, the installation developed into the largest cavalry post in the U.S. and underwent development of Biggs Field (later known as Biggs Air Force Base). 1940 marked the beginning of a transition from a cavalry post to the largest anti-aircraft artillery center in the U.S. After WWII, in 1945, a research and development program for guided missiles was initiated

(Project Paperclip). While research and development were conducted at Fort Bliss, test-firings were conducted at nearby White Sands Proving Ground in New Mexico. Anti-aircraft artillery and guided missile programs continued and expanded through the 1940s (TLI Solutions 2009).

By the 1970s, the primary mission of Fort Bliss was to provide facilities and support to the United States Army Air Defense Center (USAADC). USAADC is responsible for activating and training air defense units for the North Atlantic Treaty Organization (NATO) and other Allied nations; providing support to the Federal Republic of Germany Air Defense School (HAWK) missile training; and providing support to other Defense and governmental activities as directed.

Currently, the primary mission of Fort Bliss is to train, sustain, mobilize, and deploy members of the joint team to conduct global, full spectrum operations in support of the national military strategy while providing for the well-being of the regional military community. Furthermore, Fort Bliss is one of the Department of Defense's (DoD) flagship installations comprised of state-of-the-art training areas, ranges, and facilities.

## **1.7 CURRENT AND FUTURE LAND USES**

Former Maneuver Area A has not been part of the Fort Bliss military installation since 1980. The majority of the site is undeveloped consisting of open expanses of relatively flat desert basins that transition to elevated hills and mountainous areas. The undeveloped areas are used for ranching and recreation but not accessed frequently by the public. Developments occur within the relatively flat areas and consist of residential housing, commercial facilities, light industrial facilities, and roads along with other infrastructure to support the developments. Potential future land use is expected to be consistent with current land use.

## **1.8 PREVIOUS INVESTIGATIONS**

Previous MMRP investigations at Fort Bliss include the following:

- Range Inventory Report, report issued November 2002, report prepared by TechLaw, Inc. (TechLaw 2002)
- Range Inventory Report, report issued January 2003, report prepared by engineering environmental Management (e<sup>2</sup>M) (e<sup>2</sup>M 2003)
- SI report issued April 2007, report prepared by e<sup>2</sup>M (e<sup>2</sup>M 2007)
- Historical Records Review (HRR), report issued October 2009, report prepared by TLI Solutions, Inc. (TLI Solutions 2009)
- SI report issued March 2011, report prepared by TLI Solutions, Inc. (TLI Solutions 2011).

**1.8.1 Range Inventory Report (2002)**

This was the first of two Range Inventory Reports. The report identified one site as a potential MRS. Former Maneuver Area A was not investigated as part of this report. This effort was part of the Preliminary Assessment (PA) phase of the CERCLA process.

**1.8.2 Range Inventory Report (2003)**

According to the 2003 Range Inventory Report, the Former Maneuver Area (encompassing Former Maneuver Area A) was identified as one of five potential MMRP eligible sites. The report stated the site was used for various training exercises from about 1939 into the 1970s. Munitions reported to have been used at the site included aerial rockets (smoke and white phosphorous), practice guided missiles, bombs, and small arms. This effort completed the PA phase of the CERCLA process.

**1.8.3 Site Inspection Report (2007)**

The 2007 SI evaluated a total of six potential MMRP eligible sites at Fort Bliss that were previously identified in the Range Inventory Reports. Of the six sites, one site was determined to be an operational range and four sites were determined to be formerly used defense sites (FUDS). Consequently, the operational range and four FUDS were not addressed as part of the SI effort. The Former Maneuver Area (encompassing former Maneuver Area A) was one of four sites determined to be a FUDS and not addressed in the SI report.

**1.8.4 Historical Records Review Report (2009)**

The HRR pointed out that although the 2007 SI identified the Former Maneuver Area as a FUDS, further evaluation subsequent to the SI resulted in only a portion of the Former Maneuver Area being FUDS eligible. As a result, the HRR concluded that an SI would need to be completed for the entire Former Maneuver Area under the Active Army MMRP.

The HRR provided details of historic ownership and boundaries of the Former Maneuver Area. The report also discussed prior military usage, as documented in historic maps, photographs, aerial photographs, and written documents.

During the early 1940s, infiltration courses were constructed to provide areas on which troops could crawl under barbed wire while being subjected to nearby explosions and overhead machine gun fire. Natural ravines and bluffs were used for foot marches of up to 25 miles with full field equipment. Specific locations for these activities were not identified in historical documents.

Beginning in the 1940s, the Former Maneuver Area was used for anti-aircraft artillery maneuvers. No firing of live ammunition was to be allowed so as not to be a hazard to existing air lanes. However, there are indications of using live ammunition at times. It has been suspected that anti-aircraft artillery troops would train by firing at targets being towed by flying aircraft.

Other types of training involved soldiers using M1 .30 caliber rifles and smoke grenades. Mock villages (Little Tokyo and Yokohama Mock Village) were constructed for training troops in tactics of street fighting, but the mock villages were not located in the Former Maneuver Area. Portions of the Former Maneuver Area were designated in a 1951 map as being used for high-level bombing and strafing missions, although specific descriptions of such events occurring within the Former Maneuver Area do not appear in historic documents.

A hand-drawn, unscaled map (1956) depicts a guided missile launch site that appears to reside generally in the southern area of the Former Maneuver Area. Other maps (1951 and 1982) vaguely depict a guided missile launch site in the general area near the Texas-New Mexico border, which may be proximal to the northern part of the Former Maneuver Area. Further information regarding a guided missile launching site(s) as depicted on these maps was not found in other historical documents. Consequently, the exact location of one or more guided missile launch sites is unclear.

1960s vintage documents indicated Maneuver Area No. 2 (which comprised the majority of the Former Maneuver Area) was used for air defense artillery training that included detection, identification, tracking, and simulated engagement of aerial targets. Maneuver Areas No. 1 and No. 2 provided the advantage of having twice the usable tracking azimuth sweep for radar detection of air targets than other maneuver areas at Fort Bliss. The Former Maneuver Area, along with other areas at Fort Bliss, may have also been used for testing and evaluating equipment related to the Nike-Hercules Missile, Air Defense Distribution Systems, Air Defense Communication Systems, and Electronic Countermeasure and Electronic Counter-Countermeasure Systems.

During the 1970s, the Former Maneuver Area was used for a multitude of field maneuver training exercises by many factions of the military. Exercises were described as Operational Readiness Training, Strategic Army Forces and Return of Forces to Germany Battalion exercises, Army Training Tests, Selection and Occupation of Position Training, Adventure Training Exercises, road march training, night training, unit and individual training, map and compass course training, orienteering, Escape and Evasion training, Infantry Small Unit Tactics training, Air Defense battalion training, and other tactical training including training of National Guard and Army Reserve units. Details of how the training was conducted and the equipment/weapons used during the training were not provided in the HRR.

Documents indicate that clearances of maneuver training areas were conducted during the 1970s. Units were to remove all refuse, small arms training ammunition, and training devices following training maneuvers and to ensure that explosive training devices had detonated or were retrieved or marked for later retrieval. Specific clearance actions were also reported. 1,280 acres of the Former Maneuver Area were cleared of duds in 1946. Unexploded ordnance (UXO) and MD were reportedly discovered. Several “hot spots” were cleared in 1992 and 1993 but the clearance areas were found to be north and west of the Former Maneuver Area and within the operational range of Fort Bliss. Discoveries of MEC or MD were not discussed in the HRR for the “hot spot” clearance event.

Munitions items related to military activities were also discovered at Hueco Tanks State Park. Some of the munitions items were found during a survey conducted between 1999 and 2001 by the Texas State Archeologist at the park. Other munitions items were found by park visitors. These items are reported to be related to small arms munitions and are retained as part of an artifacts collection at the park. According to the State Archeologist, the oldest munitions item was a centerfire cartridge case fragment from a 45-70 caliber rifle adopted by the U.S. military for use from 1873 to 1892. Two WWII munitions items were a .50 caliber machine gun case and a 30-06 cartridge. The most recent piece of military ammunition identified by the State Archeologist was an unfired 5.56 millimeter (mm) centerfire cartridge from the early 1970s.

Based on the HRR, potential MEC and MD at the Former Maneuver Area was suspected to be related to small arms munitions, small arms blank munitions, and various types of pyrotechnics devices. Reports of aerial rockets, practice guided missiles, and bombs within the Former Maneuver Area were not confirmed during the HRR. Potential MC was suspected to be lead and other various metals, explosives compounds, and a host of compounds used to facilitate combustion and create desired combustion effects.

### **1.8.5 Site Inspection Report (2011)**

Information collected during the HRR was used to provide the basis for SI activities. Sixteen investigative areas were identified within the Former Maneuver Area for conducting visual surveys and collecting soil samples. Rights of entry (ROEs) were acquired for only 12 of the 16 areas. The 16 investigative areas are depicted on **Figure 1-5**.

Visual surveys were conducted for identifying potential MEC, MD, or munitions-related material. For the visual surveys, linear transects were walked by field personnel. Transect paths were determined based on known or suspected points of interest (firing points, target areas, detonation areas, disposal areas, and maneuver areas), terrain, vegetative cover, and site features. Transects provided only representative coverage of each of the 12 areas for which ROEs were obtained. Hand-held electromagnetic metal detectors were used by field personnel during the survey. Groundcover such as leaves, deadfall, grass, and weeds were removed as necessary to expose the ground surface for inspecting metal detector anomalies. Hand-held global positioning system (GPS) units were used to record the track of each transect line and to digitally locate munitions-related items.

All anomalies were related to surface finds. No subsurface anomalies were identified during the visual survey. No MEC items were observed during the visual survey. MD, range-related debris (RRD), and small arms ammunition were observed in seven of the 12 surveyed areas (Areas 4, 5, 6, 9, 10, 11, and 14). The MD, RRD, and small arms ammunition consisted of the following:

#### ***Munitions Debris (MD):***

- Fragments resulting from high explosive (HE) detonations
- Fragments and fuzes from 4.2-inch mortars (Area 4 only)

- A fuze from an expended smoke grenade

***Small Arms Ammunition:***

- .30-06 blank shell casings
- 5.56 mm blank shell casings
- 7.62 mm blank shell casings
- .30 caliber blank shell casings

***Range Related Debris (RRD):***

- '03 Springfield Stripper Clips
- M104 illuminating flare canister lid
- Machine gun links (.30-06, M60, and .30 caliber)
- Belt starter tabs
- M14 rifle clip
- M1 Garand clips

In addition, evidence of military activity, including military tent stakes, chemical lights communication wire, and a grounding rod for an electrical generator, was identified in Area 14. A summary of finds for respective surveyed areas is presented in **Table 1-3**.

Surface soil samples (zero to six inches below ground surface) were collected to evaluate the presence of MC within each of the 12 areas. Samples were collected where MD or evidence of past military activities were observed. If MD or military activity evidence were not observed, samples were collected from locations that generally represented the overall characteristics of the investigation area. Composite soil samples were collected in conjunction with significant MD finds. Composites were formed from seven individual samples collected within ½ meter of the suspected impact area. Incremental sampling (IS) soil samples were collected in areas where MD was scattered over a wide area or where no evidence of military munitions was observed. IS areas ranged in size from one half to one acre and the number of increment samples from each IS area ranged from 40 to 50.

Soil samples were analyzed for a subset of the Target Analyte List (TAL) metals and explosives, as agreed to by stakeholders at a technical project planning (TPP) meeting. Screening levels used for comparison to metals concentrations were three times the Texas Commission of Environmental Quality (TCEQ) background concentrations. Analytical results for metals indicated all concentrations were below applicable screening levels. Screening levels used for comparison to explosives concentrations were U.S. Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs); however, there were no detections of explosives compounds in the soil samples.

In summary, the SI did not identify any MEC in conjunction with the 12 areas that underwent visual surveys in the Former Maneuver Area. However, MD was discovered at seven of 12 surveyed areas. For the 12 surveyed areas, no explosives-related compounds were detected in soil samples and the concentrations of metals were below comparative background levels applicable to the SI (three times the TCEQ State background levels). Based on the SI results, the following recommendations were made:

- The Former Maneuver Area MRS is to become a Munitions Response Area consisting of two Munitions Response Sites; namely Former Maneuver Area A and Former Maneuver Area B.
- Former Maneuver Area A is to undergo additional investigation for MEC because of an identified mortar impact area, firing position, and fighting position and having areas with a high potential of being impacted by military training activities that were not surveyed.
- Former Maneuver Area B is to receive a NFA status for MEC because no evidence of MEC was observed during the visual survey and there are no areas perceived as having a high potential of being impacted by military training activities.
- Former Maneuver Areas A and B are to receive a NFA status for MC because metal concentrations in soil were below applicable screening criteria and explosives concentrations in soil were not detected. However, should MEC be identified within Former Maneuver Area A during further investigation, additional sampling may be required.

## **1.9 REPORT ORGANIZATION**

This RI report is organized as presented below:

**Section 1 – Introduction.** Describes the project objectives, purpose, and scope of the project. Also presents the project history and location, facility description and history, and environmental setting.

**Section 2 – Field Investigation Tasks.** Describes the methodology and procedures followed for the RI field investigation activities.

**Section 3 – Field Activity Results.** Describes the results of the field investigation and laboratory analysis.

**Section 4 – Munitions Response Site Recommendations.** Describes the delineated boundaries of the MRSs recommended as a result of this RI.

**Section 5 – MEC Hazard Assessment and MC Risk Assessment.** Assesses possible exposure pathways and explosive hazards and determines potential risks.

**Section 6 – Summary and Conclusions.** Provides an overview of the most noteworthy findings of the investigation for each MRS.



**Section 7 – References.** Provides the references used to develop the document.

**TABLE 1-1**  
**STATE AND FEDERAL LISTED THREATENED AND ENDANGERED SPECIES**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

Common Name	Scientific Name	Federal Status	State Status	Preferred Habitat
American Peregrine Falcon (bird)	<i>Falco peregrinus anatum</i>	Delisted	Threatened	Year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habits during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands. Tall cliffs are potentially present in parts of Former Maneuver Area A that extend into the Hueco Mountains. Present or potentially present in El Paso County.
Northern Aplomado Falcon (bird)	<i>Falco femoralis septentrionalis</i>	Endangered	Endangered	Open country, especially savanna and open woodland, and sometimes in very barren areas; grassy plains and valleys with scattered mesquite, yucca, and cactus; nests in old stick nests of other bird species. Desert grassland vegetation within Former Maneuver Area A is consistent with the grassy plains habitat. Present or potentially present in El Paso County.
Black-footed Ferret (mammal)	<i>Mustela nigripes</i>	Endangered	Not Listed	Inhabits prairie dog towns. Only expected to occur in the presence of prairie dog towns. It is not known if prairie dog towns are within Former Maneuver Area A. Present or potentially present in El Paso County.

**TABLE 1-1**  
**STATE AND FEDERAL LISTED THREATENED AND ENDANGERED SPECIES**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

Common Name	Scientific Name	Federal Status	State Status	Preferred Habitat
Gray Wolf (mammal)	<i>Canis lupus</i>	Endangered	Endangered	Formerly known throughout the western two-thirds of Texas in forests, brushlands, or grasslands. Present or potentially present in El Paso County.
Chihuahuan Desert Lyre Snake (reptile)	<i>Trimorphodon wilkinsonii</i>	Not Listed	Threatened	Mostly crevice-dwelling in predominantly limestone-surfaced desert northwest of the Rio Grande from Big Bend to the Franklin Mountains, especially in areas with jumbled boulders and rock faults/fissures; secretive; egg-bearing; eats mostly lizards. Parts of the Hueco Mountains within Former Maneuver Area A would likely exhibit features such as crevices and large rock fragments/boulders. Present or potentially present in El Paso County.
Mountain Short-Horned Lizard (reptile)	<i>Phrynosoma hernandesi</i>	Not Listed	Threatened	Diurnal, usually in open, shrubby, or openly wooded areas with sparse vegetation at ground level; soil may vary from rocky to sandy; burrows into soil or occupies rodent burrow when inactive; eats ants, spiders, snails, sowbugs, and other invertebrates; inactive during cold weather. Shrubs and sandy/rocky soil of Former Maneuver Area A are consistent with the habitat preferred by this lizard. Present or potentially present in El Paso County.

**TABLE 1-1**  
**STATE AND FEDERAL LISTED THREATENED AND ENDANGERED SPECIES**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

Common Name	Scientific Name	Federal Status	State Status	Preferred Habitat
Texas Horned Lizard (reptile)	<i>Phrynosoma cornutum</i>	Not Listed	Threatened	Lives in open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush, or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive. Desert Grassland and Chihuahuan Desert Scrub vegetation are consistent with this lizard's preferred habitat. Present or potentially present in El Paso County.

Sources:

U.S. Fish & Wildlife Service website [http://www.fws.gov/southwest/es/EndangeredSpecies/EndangeredSpecies\\_Lists/EndangeredSpecies\\_Lists\\_Main.cfm](http://www.fws.gov/southwest/es/EndangeredSpecies/EndangeredSpecies_Lists/EndangeredSpecies_Lists_Main.cfm)

Texas Parks & Wildlife Department website

[http://gis2.tpwd.state.tx.us/ReportServer\\$GIS\\_EPASDE\\_SQL/Pages/ReportViewer.aspx?%2fReport+Project2%2fReport5&rs:Command=Render&county=El%20Paso](http://gis2.tpwd.state.tx.us/ReportServer$GIS_EPASDE_SQL/Pages/ReportViewer.aspx?%2fReport+Project2%2fReport5&rs:Command=Render&county=El%20Paso)

Note:

Species included in the above table are those listed as either threatened or endangered with either the U.S. Fish & Wildlife Service or Texas Parks & Wildlife Department and have a potential to be present within Former Maneuver Area A based on the species' preferred habitat and reported presence or potential presence in El Paso County.

**TABLE 1-2**  
**ARCHEOLOGICAL SITES RESIDING IN FORMER MANEUVER AREA A**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

Site Number	Date Recorded	Age	Description	NRHP Eligibility	Recommendations
41EP10	12/17/1965	Prehistoric	camp, rock art	Unevaluated	Testing
41EP32	1963, 1965	Prehistoric	Midden circles	Unevaluated	None
41EP503	1975-1976	Prehistoric	Hamlet (pottery and hearths)	Unevaluated	None
41EP504	Unknown	Unknown	Unknown	Unknown	Unknown
41EP515	1975	Prehistoric	Camp	Not Eligible	No excavation potential
41EP526	1975-1976	Prehistoric	Camp (artifacts and hearths)	Not Eligible	Further investigations
41EP2563	1975-1976	Prehistoric	Lithic scatter	Not Eligible	No further work
41EP2565	1975-1976	Prehistoric	Small camp (sherds)	Not Eligible	No further work
41EP2609	9/5/1985	Prehistoric	Artifact scatter (lithics, ceramics)	Not Eligible	No further work
41EP2628	11/25/1987	Prehistoric	Artifact scatter (lithics, ceramics)	Not Eligible	No further work
41EP2630	11/25/1987	Prehistoric	Artifact scatter (lithics, ceramics)	Not Eligible	No further work
41EP2632	12/2/1987	Prehistoric	Artifact scatter (lithics, ceramics)	Not Eligible	No further work
41EP2634	12/5/1987	Prehistoric	Ceramic scatter, hearth	Not Eligible	No further work
41EP4682	Unknown	Unknown	Unknown	Unknown	Unknown
41EP4683	Unknown	Unknown	Unknown	Unknown	Unknown
41EP4684	5/3/1995	Prehistoric	Hearth	Not Eligible	No further work
41EP4861	11/7/1994	Prehistoric	concentration of burned caliche	Not Eligible	No further work
41EP4865	11/8/1994	Prehistoric	Camp (artifacts and hearths)	Not Eligible	No further work
41EP4871	1/21/1995	Prehistoric	Camp (artifacts and hearths)	Eligible	Avoid or protect
41EP5562	7/13/2002	Prehistoric	Habitation	Eligible	Avoid or protect

Notes:

Information for this table was obtained from the Texas Historical Commission Archeological Sites Atlas

NRHP = National Register of Historic Places

**TABLE 1-3**  
**SUMMARY OF FINDS FROM THE 2011 SITE INVESTIGATION REPORT**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

Surveyed Area	Former Maneuver Area MRS	Finds
Area 1	A	Not Accessed
Area 2	B	No Finds
Area 3	A	Not Accessed
Area 4	A	HE detonation fragment Fragments and fuzes from 4.2-inch mortar shell .30-06 blank shell casings from 1934, 1943, and 1945
Area 5	B	Top from a possible M18 expended smoke grenade '03 Springfield stripper clips
Area 6	B	W.R.A. Co. .30 caliber shell casing (late 1800s)
Area 7	B	No Finds
Area 8	B	No Finds
Area 8a (original area)	A	Not Accessed
Area 9	B	'03 Springfield stripper clip M104 illuminating flare canister lid .30-06 blank shell casings from 1943-1944 and 1951-1952
Area 10	A	Machine gun links Starter tab from .30 caliber Browning machine gun belt M14 rifle clip M1 Garand clip .30-06 blank shell casings from 1948 and 1954 Communication wire M1 Garand clips .30 caliber Browning machine gun link Browning machine gun link pile (~500 links) 3 belt starter tabs 1943 .30-06 complete ball cartridge M60 link 5.56mm blank shell casing from 1972 7.62mm blank shell casing from 1974
Area 12	A	Not Accessed
Area 13	B	No Finds
Area 14	B	Military tent stake Chemical lights Communication wire Ground rod for generator 5.56mm blank shell casing from 1965
Area 15	B	No Finds

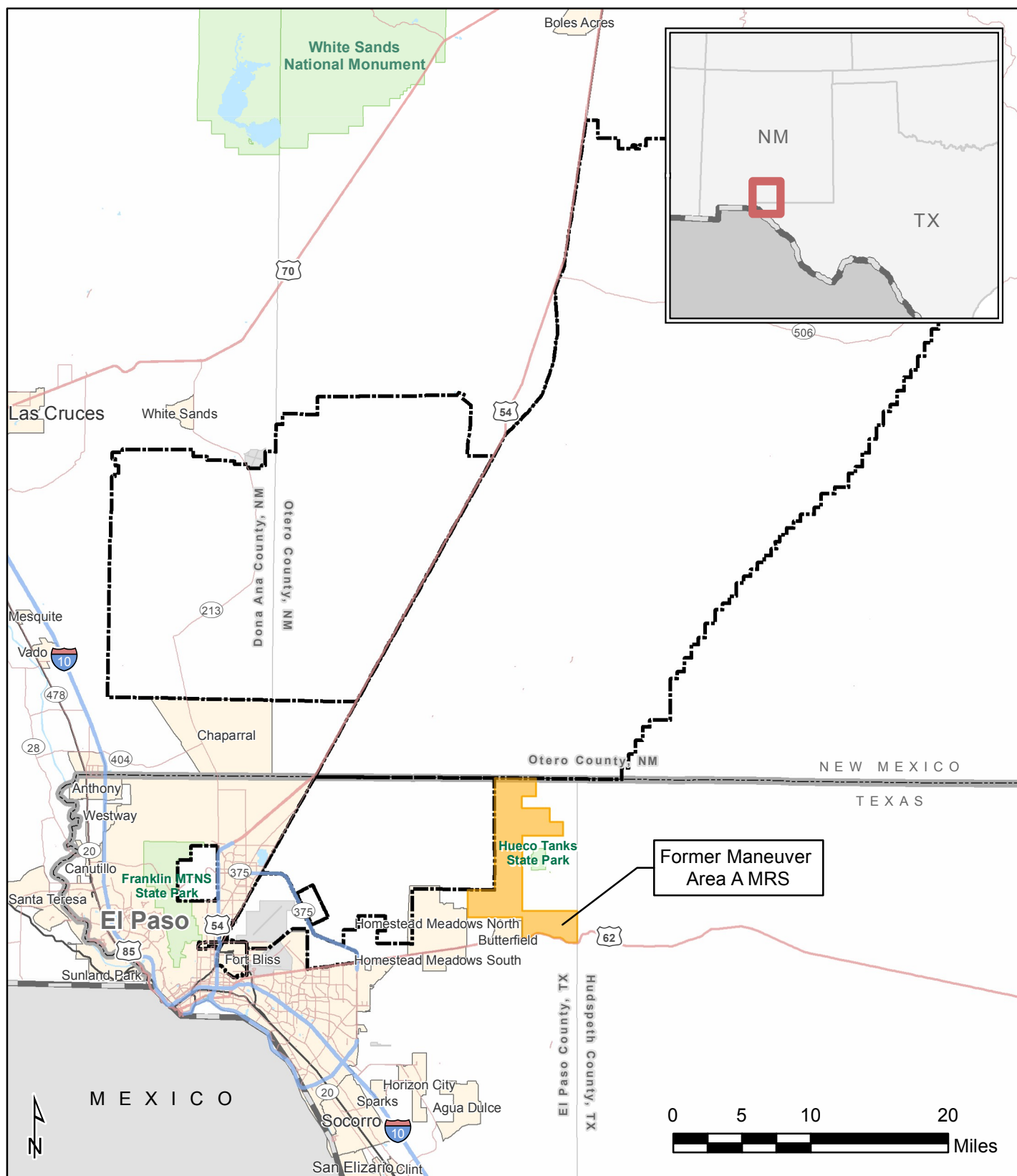
Notes:

MRS = Munitions Response Site - MRS designation A indicates Former Maneuver Area A. MRS designation B indicates former Maneuver Area B.



HE = High Explosives

mm = millimeters

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### Legend

-  Installation Boundary
-  Former Maneuver Area A MRS

**URS**



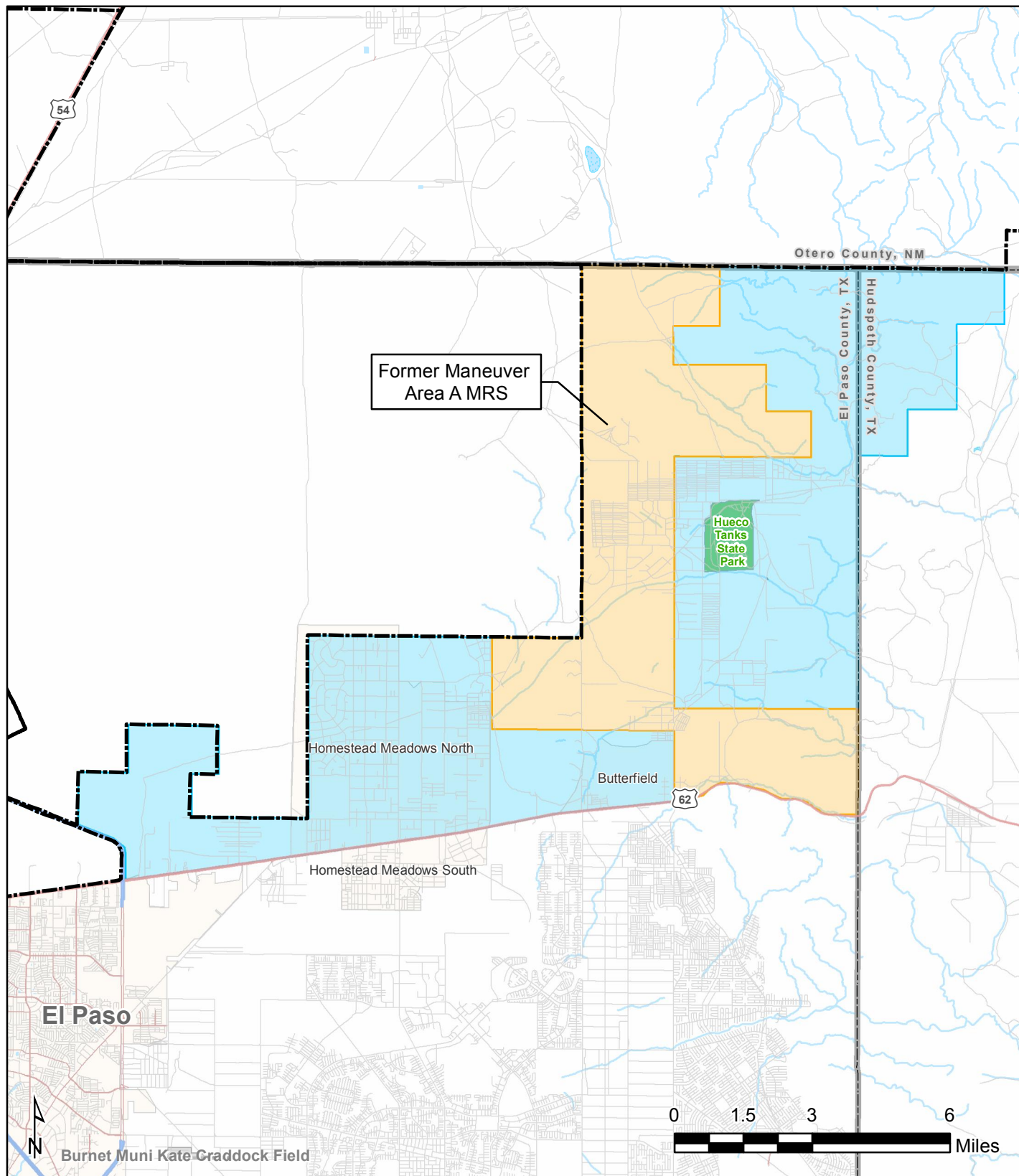
US Army Corps  
of Engineers®

**Site Vicinity Map**  
Remedial Investigation  
Former Maneuver Area A  
Fort Bliss, El Paso, TX




Drawn By: JNC	Date: 7/25/2013
Checked By: JC	Project No: 16170698

**Figure 1-1**

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#### Legend

-  Installation Boundary
-  Former Maneuver Area A MRS
-  Former Maneuver Area B MRS

**URS**



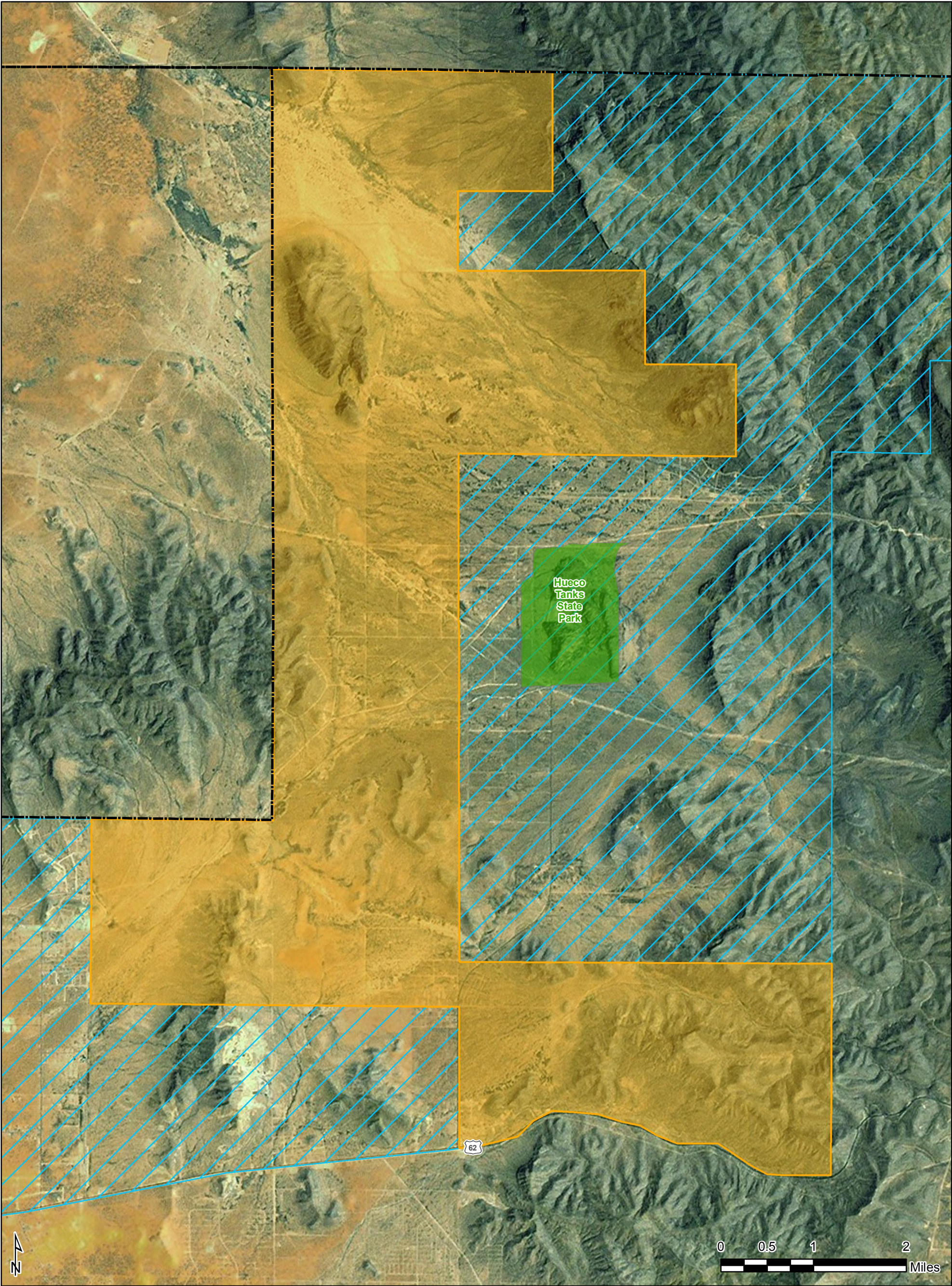
US Army Corps  
of Engineers®

**Site Location Map**  
Remedial Investigation  
Former Maneuver Area A  
Fort Bliss, El Paso, TX

Drawn By: JNC	Date: 12/2/2013
Checked By: JC	Project No: 16170698

**Figure 1-2**





- Legend**
- Installation Boundary
  - Former Maneuver Area A MRS
  - Former Maneuver Area B MRS

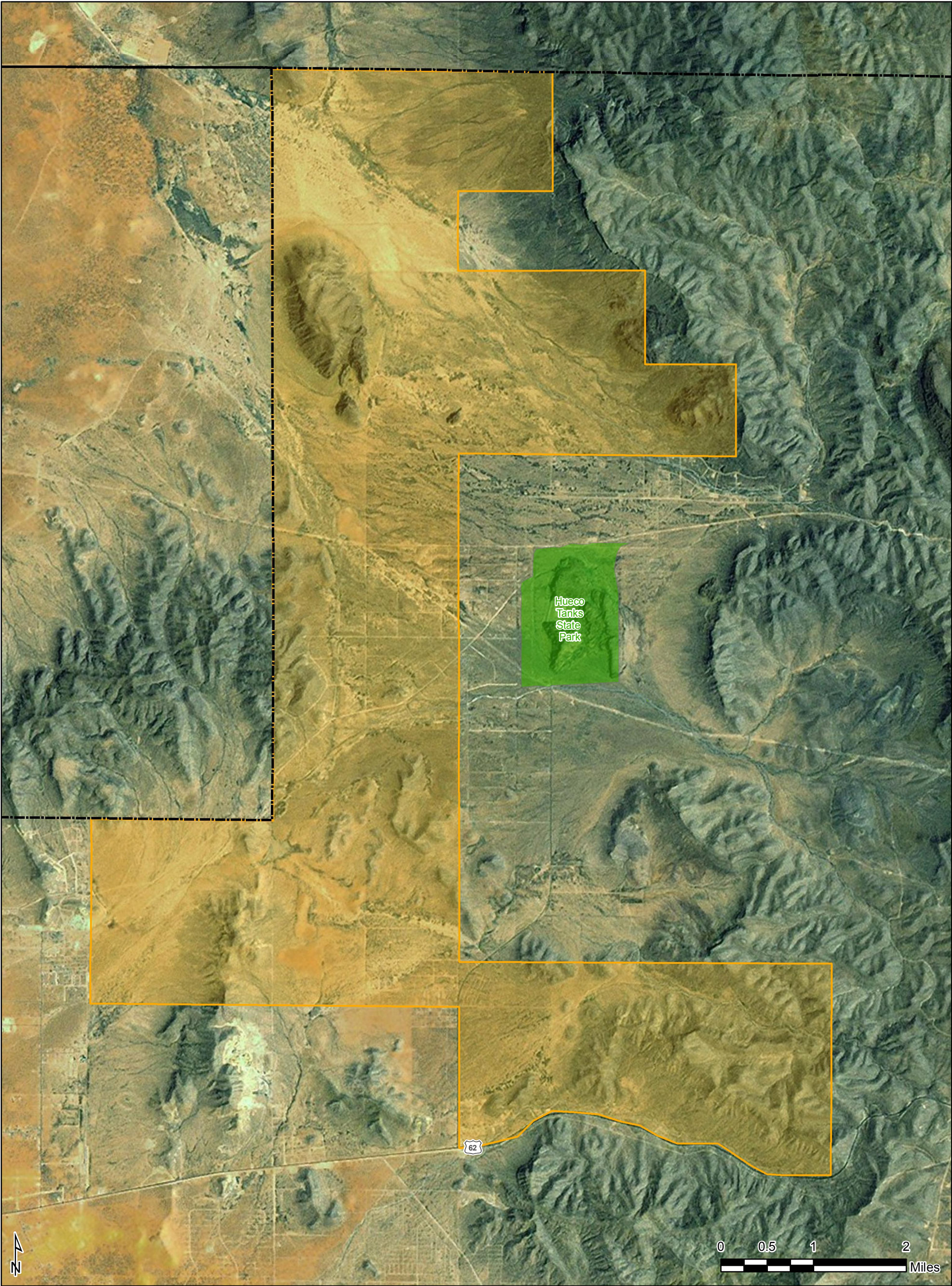


**Former Maneuver Area A  
(FTBLS-002-R-01) Site Boundary**  
Remedial Investigation  
Former Maneuver Area A  
Fort Bliss, El Paso, TX

Drawn By: JNC	Date: 12/2/2013
Checked By: JC	Project No: 16170698

**Figure 1-3**





- Legend**
- Installation Boundary
  - Former Maneuver Area A MRS

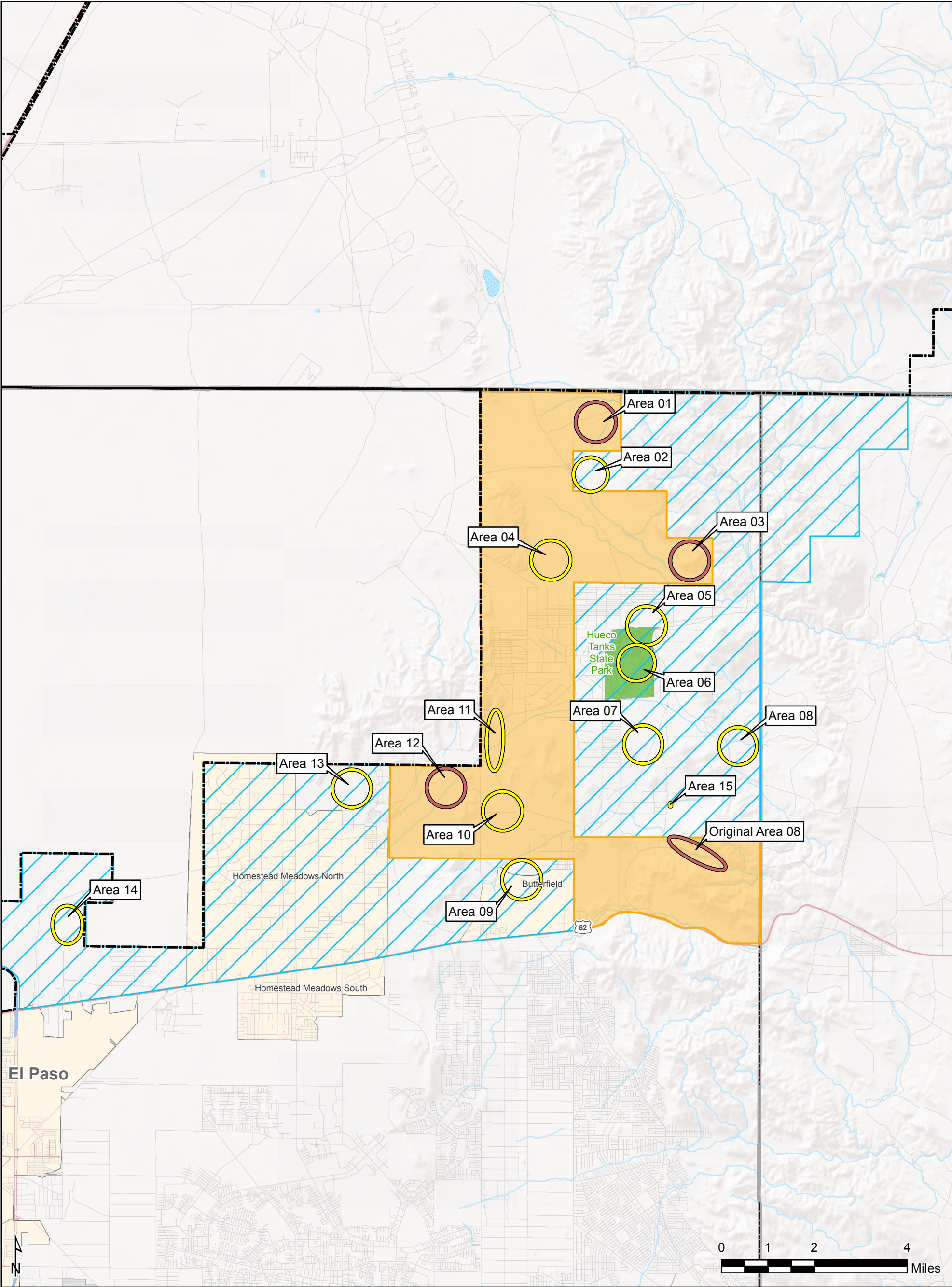


**Topographic Map**  
Remedial Investigation  
Former Maneuver Area A  
Fort Bliss, El Paso, TX

Drawn By: JNC	Date: 12/2/2013
Checked By: JC	Project No: 16170698

**Figure 1-4**





- Legend**
- Installation Boundary
  - Former Maneuver Area A MRS
  - Former Maneuver Area B MRS
  - Surveyed Site Investigative Areas
  - Not Surveyed Site Investigative Areas



**2011 Site Inspection  
Site Investigative Areas**  
Remedial Investigation  
Former Maneuver Area A  
Fort Bliss, El Paso, TX

Drawn By: JNC	Date: 12/2/2013
Checked By: JC	Project No: 16170698

**Figure 1-5**

## **2.1 INTRODUCTION**

The activities described in this RI report were completed in accordance with the RI Work Plan (URS 2013) and the approved Explosives Site Plan (ESP) (**Appendix H**) (URS 2012). RI field activities were performed during the following field intervals: November 28, 2012 through December 20, 2012; January 29, 2013 through March 22, 2013; and May 7, 2013 through May 8, 2013.

As described in **Section 1**, the general objective of the RI was to delineate the nature and extent of MEC and MC contamination in preparation for potential response actions and future land use decisions. The principle activities of the RI are discussed in the subsequent sections.

## **2.2 PROJECT PERSONNEL**

The URS project team consisted of personnel experienced in MEC and MC investigations. Key URS project team members included the Program Manager, the Project Manager (PM), and Munitions Response Safety and Quality Program Managers. Key field personnel and project staff included the Senior UXO Supervisor (SUXOS), UXO Quality Control Specialist (UXOQCS) / UXO Safety Officer (UXOSO), UXO Team Leader, UXO technicians, Project Geophysicist, Geophysics Quality Control (QC) Lead, MC sampling personnel, chemists, and risk assessors. All UXO personnel met the Department of Defense Explosives Safety Board (DDESB) minimum qualifications for UXO technicians and personnel (DDESB 2004).

## **2.3 ROE AGREEMENTS**

Former Maneuver Area A encompasses 24,477 acres divided into numerous parcels of varying size with approximately 2,516 landowners. None of the land associated with Former Maneuver Area A is currently owned or used by Fort Bliss. Therefore, ROE agreements were obtained by the Army to allow access to these properties. ROE agreements were obtained from 1,000 land owners while 36 land owners declined to allow access to their property. The ROE agreements obtained allowed access to a total of 21,978 acres (89.9 percent) of the MRS. The remaining landowners were unresponsive to the ROE request. For the purposes of the field work, the unresponsive landowner's parcels were treated as though they had declined the ROE and were not accessed. Only those areas where ROEs were obtained are included in the field work completed for this RI. A map depicting the properties accepting, declining, and unresponsive to the ROE requests is included as **Figure 2-1**.

## **2.4 DETECTOR-AIDED VISUAL SURVEY**

A visual survey was conducted at Former Maneuver Area A to determine if the surface had been impacted by MEC and material potentially presenting an explosive hazard (MPPEH) and to identify other evidence of munitions related activities (e.g., targets, craters, berms). The visual survey team utilized handheld detectors and reported anomaly densities and surface finds for

each 500-foot segment of transect. This information was used to refine the planned digital geophysical mapping (DGM) transect locations and add additional DGM transects if necessary.

The detector-aided visual survey transects were completed along planned paths. Locations of the planned, segmented transect lines were loaded into differential GPS units and those planned paths were followed to the extent possible. Two hundred foot spaced transects were surveyed over all accessible areas of the Former Maneuver Area A to which ROE agreements were obtained. A focused 100-foot spaced transects were surveyed in the demarcated circular and elliptical Areas 1, 3, 4, original area 8, 10, 11, and 12 where evidence of MPPEH had been identified in previous work.

## **2.5 VEGETATION REMOVAL**

Vegetation was removed from four 100 feet x 100 feet DGM postage stamp grids: Grids A1, A2, B1, and B2. Areas planned for vegetation removal were communicated to the Fort Bliss IRP Manager and landowner prior to commencing the removal. Vegetation was cut approximately 3 to 6 inches above the ground surface with handheld power tools. Cut vegetation was moved outside of the DGM area.

## **2.6 GEOPHYSICAL INVESTIGATION PLAN**

A combination of grid-based and transect-based surveys were utilized to complete the geophysical characterization within areas of the Former Maneuver Area A to which ROE agreements were obtained. The surveys were completed using the Geonics, Ltd. EM61 Mark II Time-Domain Electromagnetic System (EM61). Transects-based surveys were completed to provide a lateral extent of anomalous areas potentially related to former range activities, and 100-percent coverage grid locations were selected once the transect data were processed to characterize the anomaly density of these areas. The results of the visual survey were used in transect placement to ensure representative coverage over Former Maneuver Area A. Grid locations were placed in areas of MEC finds and high concentrations of MD found during intrusive investigation of the transects. Daily QC checks were completed at one of two instrument verification strips (IVS) to verify that the equipment was functioning properly. The results of the daily geophysical checks can be found in the project database.

### **2.6.1 Transect-Based Surveys**

The transect-based survey mode was utilized in large areas as a reconnaissance approach to evaluate potential MEC impact throughout Former Maneuver Area A by systematic surveying along semi linear paths to locate large features such as training and maneuver areas or target impact areas. Initial transect-based surveys were performed along parallel lines approximately 150 feet apart for a total of 417,028 linear feet of DGM coverage. The line spacing was expanded from 100 to 150 feet based on actual finding during the visual survey. In consultation and agreement with the Army (**Appendix F**), the line spacing was changed to ensure at least



three transects would cross within the fragmentation radius of the 4.2 inch mortar and 105mm projectile, but providing flexibility to locate transects in other areas as necessary. Additionally, line spacing was reduced to 50 feet in two areas where evidence of 20mm projectiles were identified during the visual survey.

### **2.6.2 Grid-Based Surveys**

The grid-based surveys were used to further evaluate results of visual and DGM transect-based surveys. Grids were placed in areas of medium and high density anomaly areas or where MEC was identified. Grid-based surveys were performed through deployment of a fixed line pattern with approximately 2.5-foot (0.75 meter) line spacing, resulting in consistent data density throughout the survey area (100 percent coverage area). Square grids of approximately 100 feet by 100 feet (or 0.23 acre) were systematically surveyed in selected locations based on visual and DGM transect survey results (**Figure 2-2**). No grids were placed in Areas E, H, I, and K due to the lack of MPPEH recovered from transects.

### **2.6.3 Geophysical Systems**

The EM61 was the geophysical instrument used during the RI. The EM61 system consisted of a pair of 1.0 by 0.5 meter coils. The system was configured on a litter due to the challenging vegetation and terrain present at Former Maneuver Area A (see photos 5, 6, and 8 in Appendix B). The lower coil is both a transmitter and receiver and the upper coil is exclusively a receiver coil, however the upper coil was only used to affix the GPS tripod at Fort Bliss and not used to acquire data. The lower coil was located 40 centimeter above the ground surface for optimal data collection with the litter.

### **2.6.4 Navigation and Positioning Equipment**

A Trimble SPS882 RTK GPS was used to determine the location of the EM61 sensor. The system consists of a rover and base station and provides centimeter level accuracy. A Trimble SPS882 Rover was mounted on a tri-pod directly over the EM61 coils and interfaced with the data logger to record positional data coincident with instrument readings. Correction data was radio transmitted from the base station to the SPS882 rover. The positional information was logged in the Projected Coordinate System; North American Datum of 1983 (NAD83), Universal Transverse Mercator (UTM) Zone 13 North and recorded in units of meters.

### **2.6.5 Anomaly Reacquisition**

The purpose of anomaly reacquisition was to mark detected and selected anomalies for excavation. The anomaly reacquisition team reacquired the geophysical anomalies identified for excavation using the same type of instrument as the original digital survey (i.e., EM61). The anomaly reacquisition was conducted in conjunction with intrusive operations using the following general sequence and procedures:

- Target lists were generated with unique identification (ID) numbers, easting and northing positional data, peak value, and target file name. All selected targets were reported in NAD83, UTM Zone 13N meters.
- The target lists were given to the reacquisition team, who relocated the targets using RTK GPS and marked the location with a polyvinyl chloride pinflag.
- After relocation, the intrusive team used the EM61 in wheel mode to locate the peak of the response. They passed over the anomaly in two perpendicular directions in order to locate the response peak as accurately as possible.
- Finally, the distance between the flag and position of the anomaly peak was recorded on the dig sheets, as well as the peak response.

### **2.6.6 Geostatistical Density Mapping Using Visual Sample Plan**

VSP's Geostatistical Density Mapping was used to interpolate anomaly densities based on the geophysical coverage and identified target anomalies in order to provide estimated numbers of targets that needed to be investigated. The projected density of MEC and MD were mapped to assist in the identification of targets areas. Item information for individual MEC types was queried from the database and imported into VSP to map anomaly densities across the MRS. This allowed confident and defensible delineation of the MRS for future land use planning and MEC clearance needs.

## **2.7 INTRUSIVE INVESTIGATION**

The RI activities were conducted in accordance with the approved DDESB ESP (URS 2012) and the RI Work Plan, which also contained the Project Site Safety and Health Plan (URS 2013). An exclusion zone for non-project personnel during intrusive operations was implemented based on the munitions with the greatest fragmentation distance (MGFD). **Table 2-1** shows the MGFD and associated exclusion zone for the MRS.

UXO-qualified technicians excavated target anomalies at the previously reacquired locations in accordance with the ESP (URS 2012). UXO excavation teams maintained a 187-foot team separation distance (TSD) during intrusive operations. Schonstedt magnetometers were used to pinpoint the target anomaly, and all anomalies within a 1-meter search radius were excavated. Hand excavation by UXO-qualified technicians was the method utilized to investigate target anomalies.

Single point anomalies were excavated until the anomaly was removed and the magnetic signature of the excavation was reduced by at least 90 percent of the original response using an EM61.

**2.7.1 MEC and MPPEH Management****2.7.1.1 MEC**

The UXO field team reported all MEC findings to the SUXOS and UXOSO/UXOQCS. The SUXOS and UXOSO/UXOQCS determined if the MEC item was acceptable to move or not acceptable to move. Munitions that were determined by the SUXOS and UXOSO to be acceptable to move were relocated within the MRS for disposal. MEC disposal activities were performed by qualified UXO personnel within the MRS. Local law enforcement was notified prior to MEC demolition.

MEC encountered during the RI that was determined by the SUXOS and UXOSO to be unacceptable to move was detonated in place. Donor explosives were provided by Dyna Energetics on an as-needed basis. Transportation of explosives was conducted in accordance with applicable sections of 49 Code of Federal Regulations (CFR) Part 397. Sandbags (HNC-ED-CS-S-98-7 Amendment 1, HNC Safety Advisory dated 12 July 2010, and the DDESB Memorandum “Clarifications Regarding Use of Sandbags for Mitigation of Fragmentation and Blast Effects due to Intentional Detonation of Munitions”, 29 November 2010) were used to reduce the intentional detonation minimum separation distance (MSD) as shown in the ESP (URS 2012).

All explosive operations followed the procedures outlined in Technical Manual (TM) 60A-1-1-31 and EM 385-1-97, Explosives Safety and Health Requirements Manual. After MEC disposal operations were completed, the UXO team conducted an inspection of the disposal area to confirm all explosives were consumed and to conduct an MPPEH inspection on any remaining material.

**2.7.1.2 MPPEH**

MPPEH was subjected to a MPPEH inspection process in accordance with USACE EM 385-1-97 (USACE 2008), DoDI 4140.62 (DoD 2008), and USACE EM 1110-1-4009 (USACE 2007a). All MPPEH was assessed and its explosives safety status determined and documented. MPPEH was documented by authorized and technically qualified personnel as material documented as safe (MDAS) after a 100 percent inspection and an independent 100 percent re-inspection to determine that it was safe from an explosives safety perspective. Once inspected and certified, MPPEH documented as MDAS was reclassified and segregated into MD, RRD, or non-RRD.

MDAS segregated as RRD and non-RRD. The detector-aided visual survey was completed using MEC and anomaly avoidance procedures. Therefore, no items were removed from the MRS during this phase of work. During the intrusive investigation, non-RRD generally consisted of other debris that did not pose an explosive hazard and was left on the MRS.

MDAS segregated as MD was stored in sealed and locked containers and was documented as such on an Issue Release/Receipt Document (DD Form 1348-1A), certified/signed by the SUXOS, and verified by the onsite USACE Ordnance and Explosives Safety Specialist (OESS).



MD was then released to an approved waste management contractor, Timberline Environmental. A certificate of destruction and a copy of the signed 1348-1A are included in **Appendix G**.

## **2.8 MUNITIONS CONSTITUENTS (MC) SAMPLING**

MD was found at the MRS during the SI and metals concentrations were below their respective screening standards. The SI recommended no further action for MC unless MEC was discovered during additional investigations. Based on the discovery of MEC items during the RI intrusive investigations, MC sampling was performed at the site.

Soil samples were collected in areas [a sampling unit (SU)] where the DGM results indicated elevated levels of anomaly density and in areas where MEC or MD of significant quantities were identified during the intrusive investigation. URS presented the results of the intrusive investigation and recommended sampling locations to the Army prior to collecting MC samples.

MC sampling was conducted to confirm the presence or absence of MC at the MRS. MC sampling was completed as described in accordance with the approved work plan (URS 2013). Sampling activities were conducted with the support of a UXO escort providing MEC and anomaly avoidance in accordance with USACE Engineering Pamphlet 75-1-2, “Unexploded Ordnance (UXO) Support During Hazardous, Toxic, and Radioactive Waste (HTRW) and Construction Activities” (USACE 2007b). Soil samples were analyzed for explosives by USEPA SW-846 Method 8330B and target metals by USEPA SW-846 Method 6010B.

Groundwater is sufficiently deep [greater than 250 feet below ground surface (bgs)] at Former Maneuver Area A to preclude MC from migrating downward and impacting groundwater. Although surface material in conjunction with arroyos and coppice dunes could be considered sediment (deposited by water or wind), such material was considered to be surface soil in conjunction with this project. Surface water does not exist except as short-lived streams and playas. For these reasons, groundwater, surface water, and sediment were not sampled for MC analysis.

### **2.8.1 Incremental Sampling (IS)**

Incremental sampling was performed in 18 of the 26 postage stamp grids where DGM surveys were performed to confirm the presence or absence of MC (**Figure 2-3**). Sample grids were selected based on the presence of MEC and/or MD. A minimum of 50 increments were collected from within the upper 6 inches of random locations within the SU and combined into a sealable plastic bag. Approximately one kilogram of soil was collected for each IS sample and submitted to Test America-Denver for laboratory analysis. Sample preparation and analysis was completed by the laboratory in accordance with USEPA SW 846 Method 8330B. Triplicate samples were collected at one per 10 field samples to verify IS representation of the SU. A relative standard deviation of less than 30 percent indicates the data has a normal distribution. The summary of analytical data and data review and validation tables are included in **Appendix C**.

### **2.8.2 Composite Sampling**

Post-detonation surface soil sampling was implemented due to detonation of MEC during the completion of the field work. Sampling was conducted within the craters formed during MEC detonations.

A circular area having an approximate one-meter circumference at the detonation location was selected for sampling. A discrete soil sample was collected from the center of the circular area and at five equidistant locations along the perimeter of the circular area. The six discrete soil samples were thoroughly mixed in a plastic bowl to form a single composite sample. Composite samples were analyzed for explosives compounds. Detailed sampling procedures utilized were outlined in the approved work plan (URS 2013).

### **2.8.3 Risk Screening Methodology**

Preliminary MEC and MC CSMs were developed for the MRS. The CSMs are discussed in Section 1 of the Work Plan (URS 2013). All analytical data generated during the RI field investigation was compared to risk-screening criteria for the chemicals of potential concern to determine if past munitions-related practices resulted in contaminant releases exceeding the screening criteria. Maximum concentrations of metals for specific media were compared with the risk-based health screening criteria and TCEQ standards. The mean concentrations were used for incremental explosive samples and compared to risk-based health screening criteria.

The risk-based screening criteria for each chemical are shown in the Uniform Federal Policy-Quality Assurance Project Plan (UFP-QAPP) contained in **Appendix E** of the work plan (URS 2013). If a human health or ecological screening value was below the analytical limit of quantitation for the chemical, the limit of quantitation was utilized as the screening value for the chemical. A summary of risk based screening levels is included in **Table 2-2**.

**TABLE 2-1**  
**MINIMUM SEPARATION DISTANCES**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

MRS Name	Munition with the Greatest Fragmentation Distance (MGFD)	Minimum Separation Distance (MSD) (feet) <sup>1</sup>				
		Unintentional Detonations		Intentional Detonations		
		Team SeapARATION Distance (K40)	Hazardous Fragement Distance (HFD)	Without Engineering Controls (MFD-H)	Using Sandbag Mitigation	Using Water Mitigation
Former Maneuver Area A	4.2-inch M3A1 mortar	81	316	1670	220 <sup>2</sup>	275 <sup>3</sup>

Notes:

<sup>1</sup> See the ESP for fragmentation data review form documenting MSDs.

<sup>2</sup> MSD based on the 4.2-inch M329 mortar (with supplemental charge).

<sup>3</sup> MSD using a 1,100-gallon tank as the water containment system..

HFD = Hazardous Fragmentation Distance

K40 = distance for MEC having largest net explosive weight

MFD-H = Maximum Fragmentation Distance - Horizontal

MGFD = Munitions with the Greatest Fragmentation Distance

MRS = Munitions Response Site

**TABLE 2-2**  
**SUMMARY OF RISK BASED SCREENING LEVELS**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

Chemical of Concern	Soil Screening Levels <sup>1</sup> ( <sup>Tot</sup> Soil <sub>Comb</sub> ) / ( <sup>GW</sup> Soil <sub>Inq</sub> )	Ecological Soil Screening Level	TCEQ Texas-Specific Soil Background Concentrations <sup>9</sup>	Achievable Laboratory Limits <sup>10</sup> of Contract Laboratory (TA-Denver)		
				DLs (mg/kg)	LODs (mg/kg)	LOQs (mg/kg)
<b>Explosives</b>						
1,3,5-Trinitrobenzene	2000 / 0.91	6.6 <sup>2</sup>	NA	0.0138	0.04	0.1
1,3-Dinitrobenzene	6.7 / 0.0038	0.073 <sup>2</sup>	NA	0.0166	0.04	0.1
2,4,6-Trinitrotoluene	33 / 0.086	6.4 <sup>2</sup>	NA	0.0307	0.04	0.1
2,4-Dinitrotoluene	6.9 / 0.0027	2.5 <sup>2</sup>	NA	0.0147	0.04	0.1
2,6-Dinitrotoluene	6.9 / 0.0024	1.8 <sup>2</sup>	NA	0.0191	0.04	0.1
2-Amino-4,6-Dinitrotoluene	11 / 0.05	10 <sup>2</sup>	NA	0.0329	0.04	0.1
2-Nitrotoluene	21 / 0.016	9.9 <sup>2</sup>	NA	0.0472	0.08	0.2
3-Nitrotoluene	670 / 0.92	12 <sup>2</sup>	NA	0.0640	0.08	0.2
4-Amino-2,6-Dinitrotoluene	11 / 0.033	3.6 <sup>2</sup>	NA	0.0299	0.04	0.1
4-Nitrotoluene	270 / 0.22	22 <sup>2</sup>	NA	0.0365	0.1	0.2
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	1600 / 1.2	17 <sup>2</sup>	NA	0.0227	0.04	0.1
Nitrobenzene	34 / 0.18	2.2 <sup>2</sup>	NA	0.085	0.1	0.3
Nitroglycerin	6.7 / 0.0069	13 <sup>2</sup>	NA	0.215	0.4	2.0
PETN (Pentaerythritol tetranitrate)	130 / 6.2	100 <sup>2</sup>	NA	0.493	1	2.0
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	43 / 0.018	7.5 <sup>2</sup>	NA	0.0430	0.08	0.2
Tetryl (Methy-2,4,6-trinitrophenylnitramine)	270 / 0.55	0.99 <sup>2</sup>	NA	0.0439	0.08	0.2
<b>Metals</b>						
Antimony	15 / 2.7	0.27 <sup>3</sup>	1	0.38	0.6	2
Barium	8100 / 220	330 <sup>4,5</sup>	300	0.076	0.18	2
Copper	550 / 520	28 <sup>6</sup>	15	0.217	0.5	5
Lead	500 / 1.5	11 <sup>7</sup>	15	0.27	0.8	0.9
Magnesium	-- / --	-- / --	-- / --	3.7	5	30
Potassium	-- / --	-- / --	-- / --	41	50	300
Zinc	9900 / 1200	46 <sup>8</sup>	30	0.398	0.8	8

Notes:

<sup>1</sup> Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area, June 2012

<sup>2</sup> Ecological screening level values for explosives were selected as lower of TTCF (2009), weathered and aged soils; and LANL (2012)

<sup>3</sup> USEPA. 2005a. Ecological Soil Screening Levels for Antimony. Interim Final. OSWER Directive 9285.7-61. February

<sup>4</sup> USEPA. 2005b. Ecological Soil Screening Levels for Barium Interim Final. OSWER Directive 9285.7- 63. February

<sup>5</sup> TNRCC. 2005. September 2005 Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas RG-263 (Revised). Texas Natural Resource Conservation Commission

<sup>6</sup> USEPA. 2007. Ecological Soil Screening Levels for Copper Interim Final. OSWER Directive 9285.7-68. February

<sup>7</sup> USEPA. 2005. Ecological Soil Screening Levels for Lead Interim Final. OSWER Directive 9285.7-70. March

<sup>8</sup> USEPA. 2007. Ecological Soil Screening Levels for Zinc Interim Final. OSWER Directive 9285.7-73. June

<sup>9</sup> TCEQ Texas-Specific Soil Background Concentrations, <http://www.tceq.texas.gov/assets/public/remediation/trrp/background.pdf>

<sup>10</sup> Achievable DLs, LODs, and LOQs are limits that an individual labortory can achieve when performing a specific analytical method.

DL = Detection Limit

LOD = Limit of Detection

LOQ = Limit of Quantification

mg/kg = milligrams per kilogram

NA = Not Applicable

TA = Test America

TCEQ = Texas Commission on Environmental Quality

This section summarizes the RI field investigation results. Results included in this section include geophysical survey results, intrusive investigation results, and MC sampling results for Former Maneuver Area A (FTBLS-002-R-01). Documentation from the field work performed is included in **Appendix G**.

### **3.1 VISUAL SURVEY OBSERVATIONS**

A visual survey was conducted at locations throughout the Former Maneuver Area A. The visual survey team utilized handheld detectors and reported areas of elevated anomaly density and surface finds for each 500-foot segment of proposed transect completed.

A total of 5,033,248 linear feet of visual transects (**Figure 3-1**) were completed as part of the visual survey. Three hundred ninety-four MD items were identified during the visual survey. The MD items included the following:

- 32 – 105mm fragments;
- 3 – 20mm fragments;
- 138 – 4.2-inch mortar fragments;
- 201 – fragments of unspecified ordnance;
- 9 – fuzes;
- 3 – grenades; and
- 8 – practice bombs.

The detector-aided visual survey was completed using MEC avoidance techniques; therefore no material was removed from the MRS during this activity. The location of the MD items identified during the visual survey was recorded and the MD was left in place (**Figure 3-1**).

Results of the visual survey were used to located the digital geophysical mapping (DGM) transects. This determination was made by plotting the density of anomalies identified during the visual survey along with the MEC and MD findings. Twelve areas within Former Maneuver Area A MRS were identified for geophysical investigation: Areas A through L (**Figure 3-2** and **Table 3-1**).

### **3.2 GEOPHYSICAL INVESTIGATION RESULTS**

DGM identified 1,120 targets on approximately 417,028 linear feet of transects in the 12 geophysical investigation areas. All of these targets were selected for intrusive investigation as shown on **Figures 3-3 through 3-8**, exceeding the requirements of the approved work plan. High concentrations of MD were found in the northeastern corner of Area C during the initial DGM survey. As a result, the boundaries of Area C were expanded (as shown on **Figure 3-5**)

and additional transect mapping was completed to determine the extents of potential contamination.

Anomalies were identified along the boundaries of Area D. Additional visual and DGM transects were completed to the south and west of the identified boundaries of Area D. Based on the absence of MEC and MD in these areas, the boundaries of Area D were not expanded beyond the initial boundaries. DGM anomaly and intrusive investigative results for the areas outside of Area D are included on **Figures 3-6 and 3-16**.

Twenty-six 100 percent coverage grid locations were selected and presented to the USACE team. These grids were generally placed in areas where MEC and/or MD were found and in areas of higher anomaly density. A summary of the size, linear feet of transects, and square feet of grid searches performed per area are included in **Table 3-1**. The anomaly density estimates obtained using VSP are shown on **Figures 3-9 through 3-12**.

All 26 100 feet by 100 feet grids were located using a Trimble SPS882 RTK GPS. Grid B2 was repositioned 100 feet to the east of its original location in order to avoid heavy vegetation. Vegetation was removed from grids A1, A2, B1, and B2 to help facilitate safe DGM mapping.

Complete coverage DGM data was collected in litter-mode over all accessible areas, while avoiding large vegetation and steep slopes. The survey area was delineated using tape measures, cones, and Geomar Trackmaker software. One hundred percent coverage was completed by placing transects at 2.5 foot spacing. A total of 544 grid targets were selected at a threshold of 15 millivolts on a sum of the first three timegates. Targets were reacquired and flagged using RTK GPS with the Target ID and original instrument value noted on the non-metallic pin flag. The EM61 was used by the intrusive team to determine peak response magnitude, and the flag was relocated over the peak as part of the reacquisition and intrusive investigation processes. All target, daily QC tests, production QC tests, QC seed, reacquisition, and intrusive results are available in the Access database (**Appendix A**).

One MEC item, a 4.2 inch HE mortar, was identified on the ground surface following the DGM mapping by the reacquisition team. When the MEC item was discovered, the ESP was in review at the United States Army Technical Center for Explosives Safety (USATCES), therefore the contractor did not dispose of the item. The MEC item was discussed with the USACE OESS and arrangements were made with Fort Bliss Explosive Ordnance Disposal (EOD) to dispose of the MEC item. This MEC item was deemed to be secure until disposal was completed based on the its location in a remote, fenced area, with restricted access via secured (locked) gates. UXO personnel visually checked the MEC item on a periodic basis.

### **3.3 INTRUSIVE INVESTIGATION RESULTS**

Intrusive investigation operations for transects were conducted from February 21, 2013 through March 8, 2013, with 1,120 targets excavated, while grid intrusive operations were conducted from March 12, 2013 to March 22, 2013, investigating 544 targets. **Table 3-2** summarizes the

intrusive results for Areas A through L. The items recovered during the intrusive investigation are depicted on **Figures 3-13 through 3-18**. All QC seeds were identified and recovered; geology (responsive rock/soil) represented approximately 40 percent of intrusive investigation results. This was largely a result of rough terrain and varying coil height resulting from the EM61 configured in litter-mode. The high percentage of hot geology was noted in a memo submitted to the Army on March 7, 2013 and included in **Appendix A**.

MEC items were identified in Areas B, C, and D (see **Table 3-3**). All five MEC items identified and recovered during the investigation were 4.2-inch mortars. One MEC item (located in Area B) was disposed of by Fort Bliss EOD on February 19, 2013 prior to approval of the ESP. The remaining MEC items were consolidated into two locations in Area C (2 mortars per location) and disposed of by URS on March 22, 2013 in accordance with the approved ESP. The MEC items were located in remote fenced areas with restricted access (i.e. locked gates). UXO technicians visually checked each item on a periodic basis.

MD items identified at the site included mortar fragments, fuzes, perforated vanes, baseplates, bomb fins/lifting bands, flare casing, signal cartridge, and small caliber ammunition. MD recovered from each area is included in **Table 3-3**.

### 3.4 MUNITION CONSTITUENT SAMPLING RESULTS

Incremental samples were collected from eighteen SUs in Areas A, B, C, D, F, J, and L on May 7, 2013 and May 8, 2013 and analyzed for selected explosives and metals. The location of the sample SUs coincide with the location of the DGM 100 percent coverage grids. Composite samples were collected from blown-in-place (BIP) locations and analyzed for selected explosives and metals. DGM data initially identified four BIP locations. During the collection of the BIP samples, it was determined by URS field personnel that MEC items were consolidated into two locations for URS demolition activities and the one Fort Bliss EOD BIP location, however the DGM data had not been updated prior to MC sampling. Therefore, BIP sample BLISS-BIPD4-SS01- 0.5 was collected from Grid D4 in Area D where MEC was identified but no detonation occurred. The data for this sample is included in the report as a BIP sample, but does not represent an actual BIP location. **Figures 3-19 through 3-24** show the locations of the incremental and BIP samples.

**Tables 3-4 and 3-5** show the comparison of maximum detected concentrations identified in the incremental and composite samples to risk-based screening levels. If a human health or ecological soil screening value was below the analytical limit of quantitation for the chemical, the limit of quantitation was utilized as the screening value for the chemical.

#### 3.4.1 Incremental Soil Sampling Results

The following is a summary of the analytical results for the incremental sampling conducted in the eighteen SUs during the RI:

- Explosives were not detected in any of the eighteen soil samples collected for analysis.

- Lead was detected in all eighteen soil samples collected, with concentrations ranging from 6.8 milligrams per kilogram (mg/kg) to 14 mg/kg. These concentrations exceeded the TCEQ soil to groundwater and/or the ecological screening levels for lead. However, the concentrations detected are within the TCEQ state-wide background level for lead (15 µg/L).
- No additional metals were detected above screening levels in any of the eighteen samples collected for analysis.

### **3.4.2 Composite Soil Sampling Results**

The following is a summary of the analytical results for the composite sampling at BIP locations:

- Explosives were not detected in any of four composite samples collected from the three reported BIP locations or the former MEC location in Area D.
- Antimony, copper, and zinc were detected in concentrations exceeding their respective ecological soil screening levels, but below the TCEQ soil to groundwater screening levels.
- Lead was identified at concentrations ranging from 9 mg/kg to 27 mg/kg. These concentrations exceeded the TCEQ soil to groundwater and/or the ecological screening levels for lead.
- No additional metals were detected above screening levels in any of the composite samples collected for analysis.

### **3.5 DISPOSITION OF MEC AND MD**

RI field operations at Former Maneuver Area A resulted in the recovery of MD and MEC items. Recovered MEC items were consolidated into three locations and detonated. Photographs of all MEC items recovered are included in **Appendix B**. MD was containerized and shipped to Timberline Environmental Services for destruction.



**TABLE 3-1**  
**DGM INVESTIGATION AREAS**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

	Area A	Area B	Area C	Area D	Area E	Area F	Area G	Area H	Area I	Area J	Area K	Area L	Totals
Acreage (acres)	115	48	364	335	54	44	16	18	46	86	47	65	1,238
Transects (ln. ft.)	33,627	14,695	114,125	134,870	14,245	14,227	5,111	7,152	16,239	26,969	14,424	21,344	417,028
Grids (sq. ft.)	20,000	20,000	80,000	90,000	0	10,000	0	0	0	20,000	0	20,000	260,000
Targets Identified	64	65	544	513	11	219	7	6	28	119	53	35	1,664
Targets Selected for Intrusive Investigation	64	65	544	513	11	219	7	6	28	119	53	35	1,664

Notes:

sq. ft. = square feet

ln. ft. = linear feet

**TABLE 3-2**  
**SUMMARY OF INTRUSIVE INVESTIGATION RESULTS**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

Area of Investigation	Anomaly Type									Totals
	MEC	MD	RRD	Geological	NRRD	Seed	False Positive	No Finds	No Dig	
Area A	0	21	0	34	2	5	2	0	0	64
Area B <sup>1</sup>	2	48	1	8	1	5	3	0	0	68
Area C	2	355	3	129	16	19	25	17	0	566
Area D	1	378	0	96	60	20	4	2	1	562
Area E	0	3	0	6	0	2	0	0	0	11
Area F	0	6	0	209	2	3	0	0	1	221
Area G	0	3	0	3	0	1	0	0	0	7
Area H	0	0	0	3	2	1	0	0	0	6
Area I	0	0	2	22	1	3	0	0	0	28
Area J	0	12	0	65	10	5	0	0	32	124
Area K	0	0	1	48	2	2	0	0	0	53
Area L	0	1	0	23	5	5	1	0	0	35
<b>Totals</b>	<b>5</b>	<b>827</b>	<b>7</b>	<b>646</b>	<b>101</b>	<b>71</b>	<b>35</b>	<b>19</b>	<b>34</b>	<b>1745<sup>2</sup></b>

Notes:

MD = Munitions Debris

MEC = Munitions and Explosives of Concern

RRD = Range Related Debris

NRRD = Not Range Related Debris

<sup>1</sup> One MEC item was discovered during DGM mapping by the reacquisition team. This item was included in the total for intrusive investigation for that area. The remaining MEC items identified in this table were discovered during intrusive investigation activities.

<sup>2</sup> This number indicates the total number of anomaly types identified as a result of the investigation. The total number of intrusive investigation locations (as indicated on Table 3-1) was 1,664. The resulting difference in totals was due to the identification of multiple anomalies at investigation locations.

TABLE 3-3  
SUMMARY OF MEC AND MD IDENTIFIED DURING INTRUSIVE INVESTIGATIONS  
REMEDIAL INVESTIGATION FORMER MANEUVER AREA A  
FORT BLISS, EL PASO, TEXAS

Area of Investigation	MEC	Munitions Debris												Munitions Debris Totals
	4.2 Inch Mortar		4.2 Inch Mortar			M38 Bomb	M38 Lifting	.50 CAL Casing	Flare Casing	37mm Casing	Signal Cartridge			
	4.2 Inch Mortar	Fragment	M2 Fuze	Perforated Vane	Baseplate	M38 Bomb Fin	Base					Band		
Area A	0	21	0	0	0	0	0	0	0	0	0	0	21	
Area B*	2	43	4	1	0	0	0	0	0	0	0	0	48	
Area C	2	341	5	2	7	0	0	0	0	0	0	0	355	
Area D	1	352	18	0	0	2	0	0	3	1	1	1	378	
Area E	0	3	0	0	0	0	0	0	0	0	0	0	3	
Area F	0	6	0	0	0	0	0	0	0	0	0	0	6	
Area G	0	3	0	0	0	0	0	0	0	0	0	0	3	
Area H	0	0	0	0	0	0	0	0	0	0	0	0	0	
Area I	0	0	0	0	0	0	0	0	0	0	0	0	0	
Area J	0	6	2	0	0	0	1	1	2	0	0	0	12	
Area K	0	0	0	0	0	0	0	0	0	0	0	0	0	
Area L	0	1	0	0	0	0	0	0	0	0	0	0	1	
Totals	5	776	29	3	7	2	1	1	5	1	1	1	827	

Notes:  
CAL = Caliber  
MEC = Munitions and Explosives of Concern  
mm = millimeter  
\* One MEC item was discovered during DGM mapping by the reacquisition team. This item was included in the total for intrusive investigation for that area.

TABLE 3-4  
COMPARISON OF MAXIMUM DETECTED CONCENTRATIONS TO RISK-BASED SCREENING LEVELS FOR INCREMENTAL SAMPLING  
REMEDIAL INVESTIGATION FORMER MANEUVER AREA A  
FORT BLISS, EL PASO, TEXAS

Field ID Date Collected	Human Health Soil Screening Levels <sup>2</sup>			TCEQ Texas- Specific Soil Background Concentrations <sup>10</sup>	BLISS-A1-SS01-0.5 May 7, 2013			BLISS-A2-SS01-0.5 May 7, 2013			BLISS-B1-SS01-0.5 May 7, 2013			BLISS-B2-SS01-0.5 May 7, 2013		
	Limit of Quantification <sup>1</sup>	(TotSoilComb) / ( <sup>GW</sup> Soil <sub>mg</sub> )	Ecological Soil Screening Level		Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual
Explosives																
1,3,5-Trinitrobenzene	0.1	2000 / 0.91	6.6 <sup>3</sup>	NA	<	0.038	U	<	0.038	U	<	0.039	U	<	0.038	U
1,3-Dinitrobenzene	0.1	6.7 / 0.0038	0.073 <sup>3</sup>	NA	<	0.038	U	<	0.038	U	<	0.039	U	<	0.038	U
2,4,6-Trinitrotoluene	0.1	33 / 0.086	6.4 <sup>3</sup>	NA	<	0.038	U	<	0.038	U	<	0.039	U	<	0.038	U
2,4-Dinitrotoluene	0.1	6.9 / 0.0027	2.5 <sup>3</sup>	NA	<	0.038	U	<	0.038	U	<	0.039	U	<	0.038	U
2,6-Dinitrotoluene	0.1	6.9 / 0.0024	1.8 <sup>3</sup>	NA	<	0.038	U	<	0.038	U	<	0.039	U	<	0.038	U
2-Amino-4,6-Dinitrotoluene	0.1	11 / 0.05	10 <sup>3</sup>	NA	<	0.038	U	<	0.038	U	<	0.039	U	<	0.038	UJ
2-Nitrotoluene	0.2	21 / 0.016	9.9 <sup>3</sup>	NA	<	0.077	U	<	0.077	U	<	0.078	U	<	0.075	U
3-Nitrotoluene	0.2	670 / 0.92	12 <sup>3</sup>	NA	<	0.077	U	<	0.077	U	<	0.078	U	<	0.075	U
4-Amino-2,6-Dinitrotoluene	0.1	11 / 0.033	3.6 <sup>3</sup>	NA	<	0.038	U	<	0.038	U	<	0.039	U	<	0.038	UJ
4-Nitrotoluene	0.2	270 / 0.22	22 <sup>3</sup>	NA	<	0.096	U	<	0.096	U	<	0.098	U	<	0.094	U
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	0.1	1600 / 1.2	17 <sup>3</sup>	NA	<	0.038	U	<	0.038	U	<	0.039	U	<	0.038	U
Nitrobenzene	0.3	34 / 0.18	2.2 <sup>3</sup>	NA	<	0.096	U	<	0.096	U	<	0.098	U	<	0.094	U
Nitroglycerin	2	6.7 / 0.0069	13 <sup>3</sup>	NA	<	0.38	U	<	0.38	U	<	0.39	U	<	0.38	U
PETN (Pentaerythritol tetranitrate)	2	130 / 6.2	100 <sup>3</sup>	NA	<	0.96	U	<	0.96	U	<	0.98	U	<	0.94	U
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	0.2	43 / 0.018	7.5 <sup>3</sup>	NA	<	0.077	U	<	0.077	U	<	0.078	U	<	0.075	U
Tetryl (Methy-2,4,6-trinitrophenylnitramine)	0.2	270 / 0.55	0.99 <sup>3</sup>	NA	<	0.077	U	<	0.077	U	<	0.078	U	<	0.075	U
Metals																
Antimony	2	15 / 2.7	0.27 <sup>4</sup>	1	<	0.6	U	<	0.59	U	<	3	U	<	2.9	UJ
Barium	2	8100 / 220	330 <sup>5,6</sup>	300	66	0.18		72	0.18		65	0.18		75	0.86	J
Copper	5	550 / 520	28 <sup>7</sup>	15	10	0.5		12	0.49		8	0.5		8.6	0.48	
Lead	0.9	500 / 1.5	11 <sup>8</sup>	15	13	0.8		14	0.79		11	4		12	3.8	J
Magnesium	30	-- / --	-- / --	-- / --	3100	5		3400	4.9		2900	5		3800	24	
Potassium	300	-- / --	-- / --	-- / --	1800	50		1800	49		1500	50		1700	48	
Zinc	8	9900 / 1200	46 <sup>9</sup>	30	44	0.8		45	0.79		38	0.79		40	0.77	J

Notes:

Screening levels less than the primary laboratory's LOQ are listed in red text

Results above the soil-to-groundwater screening criteria are shaded blue.

Results above the ecological and soil-to-groundwater screening criteria are shaded yellow.

<sup>1</sup> Achievable DLs, LODs, and LOQs are limits that an individual labortory can achieve when performing a specific analytical method.

<sup>2</sup> Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area, June 2012

<sup>3</sup> Ecological screening level values for explosives were selected as lower of TTCP (2009), weathered and aged soils; and LANL (2012)

<sup>4</sup> USEPA. 2005a. Ecological Soil Screening Levels for Antimony. Interim Final. OSWER Directive 9285.7-61. February

<sup>5</sup> USEPA. 2005b. Ecological Soil Screening Levels for Barium Interim Final. OSWER Directive 9285.7- 63. February

<sup>6</sup> TNRCC. 2005. September 2005 Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas RG-263 (Revised). Texas Natural Resource Conservation Commission

<sup>7</sup> USEPA. 2007. Ecological Soil Screening Levels for Copper Interim Final. OSWER Directive 9285.7-68. February

<sup>8</sup> USEPA. 2005. Ecological Soil Screening Levels for Lead Interim Final. OSWER Directive 9285.7-70. March

<sup>9</sup> USEPA. 2007. Ecological Soil Screening Levels for Zinc Interim Final. OSWER Directive 9285.7-73. June

<sup>10</sup> TCEQ Texas-Specific Soil Background Concentrations, <http://www.tceq.texas.gov/assets/public/remediation/trrp/background.pdf>

DL = Detection Limit

ID = Identification

LANL = Los Alamos National Laboratory

LOD = Limit of Detection

LOQ = Limit of Quantification

NA = Not Applicable

OSWER = Office of Solid Waste and Emergency Response

Qual = Qualifier

TCEQ = Texas Commission on Environmental Quality

TTCP = The Technical Cooperation Program

U = Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-4  
COMPARISON OF MAXIMUM DETECTED CONCENTRATIONS TO RISK-BASED SCREENING LEVELS FOR INCREMENTAL SAMPLING  
REMEDIAL INVESTIGATION FORMER MANEUVER AREA A  
FORT BLISS, EL PASO, TEXAS

Field ID Date Collected	Human Health Soil Screening Levels <sup>2</sup>			TCEQ Texas- Specific Soil Background Concentrations <sup>10</sup>	BLISS-C1-SS01-0.5 May 7, 2013			BLISS-C2-SS01-0.5 May 7, 2013			BLISS-C3-SS01-0.5 May 7, 2013			BLISS-C4-SS01-0.5 May 7, 2013		
	Limit of Quantification <sup>1</sup>	(TotSoilComb) / (GWSoilmg)	Ecological Soil Screening Level		Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual
Explosives																
1,3,5-Trinitrobenzene	0.1	2000 / 0.91	6.6 <sup>3</sup>	NA	<	0.038	U	<	0.037	U	<	0.038	U	<	0.039	U
1,3-Dinitrobenzene	0.1	6.7 / 0.0038	0.073 <sup>3</sup>	NA	<	0.038	U	<	0.037	U	<	0.038	U	<	0.039	U
2,4,6-Trinitrotoluene	0.1	33 / 0.086	6.4 <sup>3</sup>	NA	<	0.038	U	<	0.037	U	<	0.038	U	<	0.039	U
2,4-Dinitrotoluene	0.1	6.9 / 0.0027	2.5 <sup>3</sup>	NA	<	0.038	U	<	0.037	U	<	0.038	U	<	0.039	U
2,6-Dinitrotoluene	0.1	6.9 / 0.0024	1.8 <sup>3</sup>	NA	<	0.038	U	<	0.037	U	<	0.038	U	<	0.039	U
2-Amino-4,6-Dinitrotoluene	0.1	11 / 0.05	10 <sup>3</sup>	NA	<	0.038	U	<	0.037	U	<	0.038	U	<	0.039	U
2-Nitrotoluene	0.2	21 / 0.016	9.9 <sup>3</sup>	NA	<	0.076	U	<	0.074	U	<	0.076	U	<	0.077	U
3-Nitrotoluene	0.2	670 / 0.92	12 <sup>3</sup>	NA	<	0.076	U	<	0.074	U	<	0.076	U	<	0.077	U
4-Amino-2,6-Dinitrotoluene	0.1	11 / 0.033	3.6 <sup>3</sup>	NA	<	0.038	U	<	0.037	U	<	0.038	U	<	0.039	U
4-Nitrotoluene	0.2	270 / 0.22	22 <sup>3</sup>	NA	<	0.095	U	<	0.092	U	<	0.095	U	<	0.097	U
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	0.1	1600 / 1.2	17 <sup>3</sup>	NA	<	0.038	U	<	0.037	U	<	0.038	U	<	0.039	U
Nitrobenzene	0.3	34 / 0.18	2.2 <sup>3</sup>	NA	<	0.095	U	<	0.092	U	<	0.095	U	<	0.097	U
Nitroglycerin	2	6.7 / 0.0069	13 <sup>3</sup>	NA	<	0.38	U	<	0.37	U	<	0.38	U	<	0.39	U
PETN (Pentaerythritol tetranitrate)	2	130 / 6.2	100 <sup>3</sup>	NA	<	0.95	U	<	0.92	U	<	0.95	U	<	0.97	U
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	0.2	43 / 0.018	7.5 <sup>3</sup>	NA	<	0.076	U	<	0.074	U	<	0.076	U	<	0.077	U
Tetryl (Methy-2,4,6-trinitrophenylnitramine)	0.2	270 / 0.55	0.99 <sup>3</sup>	NA	<	0.076	U	<	0.074	U	<	0.076	U	<	0.077	U
Metals																
Antimony	2	15 / 2.7	0.27 <sup>4</sup>	1	<	0.6	U	<	0.59	U	<	0.58	U	<	0.55	U
Barium	2	8100 / 220	330 <sup>5,6</sup>	300	97	0.18		90	0.18		59	0.17		83	0.17	
Copper	5	550 / 520	28 <sup>7</sup>	15	12	0.5		10	0.49		5.7	0.48		7	0.46	
Lead	0.9	500 / 1.5	11 <sup>8</sup>	15	12	0.8		10	0.79		7.1	0.77		6.6	0.74	
Magnesium	30	-- / --	-- / --	-- / --	4000	5		3700	4.9		2300	4.8		3200	4.6	
Potassium	300	-- / --	-- / --	-- / --	3100	50		2700	49		1700	48		2500	46	
Zinc	8	9900 / 1200	46 <sup>9</sup>	30	44	0.8		41	0.79		26	0.77		35	0.74	

Notes:

Screening levels less than the primary laboratory's LOQ are listed in red text

Results above the soil-to-groundwater screening criteria are shaded blue.

Results above the ecological and soil-to-groundwater screening criteria are shaded yellow.

<sup>1</sup> Achievable DLs, LODs, and LOQs are limits that an individual labortory can achieve when performing a specific analytical method.

<sup>2</sup> Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area, June 2012

<sup>3</sup> Ecological screening level values for explosives were selected as lower of TTCP (2009), weathered and aged soils; and LANL (2012)

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<sup>6</sup> TNRCC. 2005. September 2005 Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas RG-263 (Revised). Texas Natural Resource Con

<sup>7</sup> USEPA. 2007. Ecological Soil Screening Levels for Copper Interim Final. OSWER Directive 9285.7-68. February

<sup>8</sup> USEPA. 2005. Ecological Soil Screening Levels for Lead Interim Final. OSWER Directive 9285.7-70. March

<sup>9</sup> USEPA. 2007. Ecological Soil Screening Levels for Zinc Interim Final. OSWER Directive 9285.7-73. June

<sup>10</sup> TCEQ Texas-Specific Soil Background Concentrations, <http://www.tceq.texas.gov/assets/public/remediation/trrp/background.pdf>

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TABLE 3-4  
COMPARISON OF MAXIMUM DETECTED CONCENTRATIONS TO RISK-BASED SCREENING LEVELS FOR INCREMENTAL SAMPLING  
REMEDIAL INVESTIGATION FORMER MANEUVER AREA A  
FORT BLISS, EL PASO, TEXAS

Field ID Date Collected	Human Health Soil Screening Levels <sup>2</sup>			TCEQ Texas- Specific Soil Background Concentrations <sup>10</sup>	BLISS-C5-SS01-0.5 May 7, 2013			BLISS-C7-SS01-0.5 May 7, 2013			BLISS-D1-SS01-0.5 May 8, 2013			BLISS-D4-SS01-0.5 May 8, 2013		
	Limit of Quantification <sup>1</sup>	(TotSoilComb) / (GWSoilmg)	Ecological Soil Screening Level		Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual
Explosives																
1,3,5-Trinitrobenzene	0.1	2000 / 0.91	6.6 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.037	U	<	0.037	U
1,3-Dinitrobenzene	0.1	6.7 / 0.0038	0.073 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.037	U	<	0.037	U
2,4,6-Trinitrotoluene	0.1	33 / 0.086	6.4 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.037	U	<	0.037	U
2,4-Dinitrotoluene	0.1	6.9 / 0.0027	2.5 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.037	U	<	0.037	U
2,6-Dinitrotoluene	0.1	6.9 / 0.0024	1.8 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.037	U	<	0.037	U
2-Amino-4,6-Dinitrotoluene	0.1	11 / 0.05	10 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.037	U	<	0.037	U
2-Nitrotoluene	0.2	21 / 0.016	9.9 <sup>3</sup>	NA	<	0.078	U	<	0.076	U	<	0.075	U	<	0.074	U
3-Nitrotoluene	0.2	670 / 0.92	12 <sup>3</sup>	NA	<	0.078	U	<	0.076	U	<	0.075	U	<	0.074	U
4-Amino-2,6-Dinitrotoluene	0.1	11 / 0.033	3.6 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.037	U	<	0.037	U
4-Nitrotoluene	0.2	270 / 0.22	22 <sup>3</sup>	NA	<	0.098	U	<	0.095	U	<	0.094	U	<	0.093	U
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	0.1	1600 / 1.2	17 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.037	U	<	0.037	U
Nitrobenzene	0.3	34 / 0.18	2.2 <sup>3</sup>	NA	<	0.098	U	<	0.095	U	<	0.094	U	<	0.093	U
Nitroglycerin	2	6.7 / 0.0069	13 <sup>3</sup>	NA	<	0.39	U	<	0.38	U	<	0.37	U	<	0.37	U
PETN (Pentaerythritol tetranitrate)	2	130 / 6.2	100 <sup>3</sup>	NA	<	0.98	U	<	0.95	U	<	0.94	U	<	0.93	U
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	0.2	43 / 0.018	7.5 <sup>3</sup>	NA	<	0.078	U	<	0.076	U	<	0.075	U	<	0.074	U
Tetryl (Methy-2,4,6-trinitrophenylnitramine)	0.2	270 / 0.55	0.99 <sup>3</sup>	NA	<	0.078	U	<	0.076	U	<	0.075	U	<	0.074	U
Metals																
Antimony	2	15 / 2.7	0.27 <sup>4</sup>	1	<	0.61	U	<	0.6	U	<	0.57	U	<	0.59	U
Barium	2	8100 / 220	330 <sup>5,6</sup>	300	94	0.18		65	0.18		45	0.17		61	0.18	
Copper	5	550 / 520	28 <sup>7</sup>	15	9.1	0.51		7.8	0.5		3.9	0.47	J	5.7	0.49	
Lead	0.9	500 / 1.5	11 <sup>8</sup>	15	8.6	0.81		7.7	0.8		6.6	0.76		8.1	0.79	
Magnesium	30	-- / --	-- / --	-- / --	4000	5.1		2800	5		1200	4.7		1700	4.9	
Potassium	300	-- / --	-- / --	-- / --	2900	51		2300	50		940	47		1300	49	
Zinc	8	9900 / 1200	46 <sup>9</sup>	30	40	0.81		33	0.8		40	0.76		36	0.79	

Notes:

Screening levels less than the primary laboratory's LOQ are listed in red text

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FORT BLISS, EL PASO, TEXAS

Field ID Date Collected	Human Health Soil Screening Levels <sup>2</sup>			TCEQ Texas- Specific Soil Background Concentrations <sup>10</sup>	BLISS-D5-SS01-0.5 May 8, 2013			BLISS-D7-SS01-0.5 May 8, 2013			BLISS-D9-SS01-0.5 May 8, 2013			BLISS-F1-SS01-0.5 May 8, 2013		
	Limit of Quantification <sup>1</sup>	(TotSoilComb) / (GWSoilmg)	Ecological Soil Screening Level		Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual
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2,4-Dinitrotoluene	0.1	6.9 / 0.0027	2.5 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.039	U	<	0.038	U
2,6-Dinitrotoluene	0.1	6.9 / 0.0024	1.8 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.039	U	<	0.038	U
2-Amino-4,6-Dinitrotoluene	0.1	11 / 0.05	10 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.039	U	<	0.038	U
2-Nitrotoluene	0.2	21 / 0.016	9.9 <sup>3</sup>	NA	<	0.078	U	<	0.076	U	<	0.078	U	<	0.076	U
3-Nitrotoluene	0.2	670 / 0.92	12 <sup>3</sup>	NA	<	0.078	U	<	0.076	U	<	0.078	U	<	0.076	U
4-Amino-2,6-Dinitrotoluene	0.1	11 / 0.033	3.6 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.039	U	<	0.038	U
4-Nitrotoluene	0.2	270 / 0.22	22 <sup>3</sup>	NA	<	0.097	U	<	0.095	U	<	0.098	U	<	0.095	U
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	0.1	1600 / 1.2	17 <sup>3</sup>	NA	<	0.039	U	<	0.038	U	<	0.039	U	<	0.038	U
Nitrobenzene	0.3	34 / 0.18	2.2 <sup>3</sup>	NA	<	0.097	U	<	0.095	U	<	0.098	U	<	0.095	U
Nitroglycerin	2	6.7 / 0.0069	13 <sup>3</sup>	NA	<	0.39	U	<	0.38	U	<	0.39	U	<	0.38	U
PETN (Pentaerythritol tetranitrate)	2	130 / 6.2	100 <sup>3</sup>	NA	<	0.97	U	<	0.95	U	<	0.98	U	<	0.95	U
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	0.2	43 / 0.018	7.5 <sup>3</sup>	NA	<	0.078	U	<	0.076	U	<	0.078	U	<	0.076	U
Tetryl (Methy-2,4,6-trinitrophenylnitramine)	0.2	270 / 0.55	0.99 <sup>3</sup>	NA	<	0.078	U	<	0.076	U	<	0.078	U	<	0.076	U
Metals																
Antimony	2	15 / 2.7	0.27 <sup>4</sup>	1	<	0.6	U	<	0.6	U	<	0.59	UJ	<	0.6	U
Barium	2	8100 / 220	330 <sup>5,6</sup>	300	49	0.18		65	0.18		92	0.18	J	93	0.18	
Copper	5	550 / 520	28 <sup>7</sup>	15	4.1	0.5	J	10	0.5		15	0.49		12	0.5	
Lead	0.9	500 / 1.5	11 <sup>8</sup>	15	6.8	0.8		13	0.8		14	0.79	J	13	0.8	
Magnesium	30	-- / --	-- / --	-- / --	1500	5		2400	5		3900	4.9	J	3700	5	
Potassium	300	-- / --	-- / --	-- / --	1300	50		2200	50		3400	49		2900	50	
Zinc	8	9900 / 1200	46 <sup>9</sup>	30	33	0.8		37	0.8		43	0.79	J	38	0.8	

Notes:

Screening levels less than the primary laboratory's LOQ are listed in red text

Results above the soil-to-groundwater screening criteria are shaded blue.

Results above the ecological and soil-to-groundwater screening criteria are shaded yellow.

<sup>1</sup> Achievable DLs, LODs, and LOQs are limits that an individual labortory can achieve when performing a specific analytical method.

<sup>2</sup> Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area, June 2012

<sup>3</sup> Ecological screening level values for explosives were selected as lower of TTCP (2009), weathered and aged soils; and LANL (2012)

<sup>4</sup> USEPA. 2005a. Ecological Soil Screening Levels for Antimony. Interim Final. OSWER Directive 9285.7-61. February

<sup>5</sup> USEPA. 2005b. Ecological Soil Screening Levels for Barium Interim Final. OSWER Directive 9285.7- 63. February

<sup>6</sup> TNRCC. 2005. September 2005 Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas RG-263 (Revised). Texas Natural Resource Con

<sup>7</sup> USEPA. 2007. Ecological Soil Screening Levels for Copper Interim Final. OSWER Directive 9285.7-68. February

<sup>8</sup> USEPA. 2005. Ecological Soil Screening Levels for Lead Interim Final. OSWER Directive 9285.7-70. March

<sup>9</sup> USEPA. 2007. Ecological Soil Screening Levels for Zinc Interim Final. OSWER Directive 9285.7-73. June

<sup>10</sup> TCEQ Texas-Specific Soil Background Concentrations, <http://www.tceq.texas.gov/assets/public/remediation/trrp/background.pdf>

DL = Detection Limit

ID = Identification

LANL = Los Alamos National Laboratory

LOD = Limit of Detection

LOQ = Limit of Quantification

NA = Not Applicable

OSWER = Office of Solid Waste and Emergency Response

Qual = Qualifier

TCEQ = Texas Commission on Environmental Quality

TTCP = The Technical Cooperation Program

U = Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-4  
COMPARISON OF MAXIMUM DETECTED CONCENTRATIONS TO RISK-BASED SCREENING LEVELS FOR INCREMENTAL SAMPLING  
REMEDIAL INVESTIGATION FORMER MANEUVER AREA A  
FORT BLISS, EL PASO, TEXAS

Field ID Date Collected	Human Health Soil Screening Levels <sup>2</sup>			TCEQ Texas- Specific Soil Background Concentrations <sup>10</sup>	BLISS-J1-SS01-0.5 May 8, 2013			BLISS-L2-SS01-0.5 May 8, 2013		
	Limit of Quantification <sup>1</sup>	(TotSoil <sub>Comb</sub> ) / ( <sup>GW</sup> Soil <sub>Ing</sub> )	Ecological Soil Screening Level		Result	LOD	Qual	Result	LOD	Qual
Explosives										
1,3,5-Trinitrobenzene	0.1	2000 / 0.91	6.6 <sup>3</sup>	NA	<	0.038	U	<	0.039	U
1,3-Dinitrobenzene	0.1	6.7 / 0.0038	0.073 <sup>3</sup>	NA	<	0.038	U	<	0.039	U
2,4,6-Trinitrotoluene	0.1	33 / 0.086	6.4 <sup>3</sup>	NA	<	0.038	U	<	0.039	U
2,4-Dinitrotoluene	0.1	6.9 / 0.0027	2.5 <sup>3</sup>	NA	<	0.038	U	<	0.039	U
2,6-Dinitrotoluene	0.1	6.9 / 0.0024	1.8 <sup>3</sup>	NA	<	0.038	U	<	0.039	U
2-Amino-4,6-Dinitrotoluene	0.1	11 / 0.05	10 <sup>3</sup>	NA	<	0.038	U	<	0.039	U
2-Nitrotoluene	0.2	21 / 0.016	9.9 <sup>3</sup>	NA	<	0.076	U	<	0.079	U
3-Nitrotoluene	0.2	670 / 0.92	12 <sup>3</sup>	NA	<	0.076	U	<	0.079	U
4-Amino-2,6-Dinitrotoluene	0.1	11 / 0.033	3.6 <sup>3</sup>	NA	<	0.038	U	<	0.039	U
4-Nitrotoluene	0.2	270 / 0.22	22 <sup>3</sup>	NA	<	0.094	U	<	0.098	U
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	0.1	1600 / 1.2	17 <sup>3</sup>	NA	<	0.038	U	<	0.039	U
Nitrobenzene	0.3	34 / 0.18	2.2 <sup>3</sup>	NA	<	0.094	U	<	0.098	U
Nitroglycerin	2	6.7 / 0.0069	13 <sup>3</sup>	NA	<	0.38	U	<	0.39	U
PETN (Pentaerythritol tetranitrate)	2	130 / 6.2	100 <sup>3</sup>	NA	<	0.94	U	<	0.98	U
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	0.2	43 / 0.018	7.5 <sup>3</sup>	NA	<	0.076	U	<	0.079	U
Tetryl (Methy-2,4,6-trinitrophenylnitramine)	0.2	270 / 0.55	0.99 <sup>3</sup>	NA	<	0.076	U	<	0.079	U
Metals										
Antimony	2	15 / 2.7	0.27 <sup>4</sup>	1	<	0.57	U	<	0.57	U
Barium	2	8100 / 220	330 <sup>5,6</sup>	300	66	0.17		34	0.17	
Copper	5	550 / 520	28 <sup>7</sup>	15	9.1	0.48		4.6	0.48	J
Lead	0.9	500 / 1.5	11 <sup>8</sup>	15	11	0.76		10	0.77	
Magnesium	30	-- / --	-- / --	-- / --	2800	4.8		1800	4.8	
Potassium	300	-- / --	-- / --	-- / --	2000	48		1200	48	
Zinc	8	9900 / 1200	46 <sup>9</sup>	30	28	0.76		20	0.77	

Notes:

Screening levels less than the primary laboratory's LOQ are listed in red text

Results above the soil-to-groundwater screening criteria are shaded blue.

Results above the ecological and soil-to-groundwater screening criteria are shaded yellow.

<sup>1</sup> Achievable DLs, LODs, and LOQs are limits that an individual labortory can achieve when performing a specific analytical method.

<sup>2</sup> Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area, June 2012

<sup>3</sup> Ecological screening level values for explosives were selected as lower of TTCP (2009), weathered and aged soils; and LANL (2012)

<sup>4</sup> USEPA. 2005a. Ecological Soil Screening Levels for Antimony. Interim Final. OSWER Directive 9285.7-61. February

<sup>5</sup> USEPA. 2005b. Ecological Soil Screening Levels for Barium Interim Final. OSWER Directive 9285.7- 63. February

<sup>6</sup> TNRCC. 2005. September 2005 Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas RG-263 (Revised). Texas Natural Resource Con

<sup>7</sup> USEPA. 2007. Ecological Soil Screening Levels for Copper Interim Final. OSWER Directive 9285.7-68. February

<sup>8</sup> USEPA. 2005. Ecological Soil Screening Levels for Lead Interim Final. OSWER Directive 9285.7-70. March

<sup>9</sup> USEPA. 2007. Ecological Soil Screening Levels for Zinc Interim Final. OSWER Directive 9285.7-73. June

<sup>10</sup> TCEQ Texas-Specific Soil Background Concentrations, <http://www.tceq.texas.gov/assets/public/remediation/trrp/background.pdf>

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LANL = Los Alamos National Laboratory

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OSWER = Office of Solid Waste and Emergency Response

Qual = Qualifier

TCEQ = Texas Commission on Environmental Quality

TTCP = The Technical Cooperation Program

U = Nondetect

USEPA = United States Environmental Protection Agency



TABLE 3-5  
COMPARISON OF MAXIMUM DETECTED CONCENTRATIONS TO RISK-BASED SCREENING LEVELS FOR COMPOSITE SAMPLING  
REMEDIAL INVESTIGATION FORMER MANEUVER AREA A  
FORT BLISS, EL PASO, TEXAS

Field ID Date Collected	Human Health Soil Screening Levels <sup>2</sup>			TCEQ Texas- Specific Soil Background Concentrations <sup>10</sup>	BLISS-BIPB2-SS01-0.5 May 7, 2013			BLISS-BIPC1-SS01-0.5 May 7, 2013			BLISS-BIPC7-SS01-0.5 May 7, 2013			BLISS-BIPD4-SS01-0.5 May 8, 2013		
	Limit of Quantification <sup>1</sup>	( <sup>Tot</sup> Soil <sub>Comb</sub> ) / ( <sup>GW</sup> Soil <sub>Inc</sub> )	Ecological Soil Screening Level		Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual	Result	LOD	Qual
Explosives																
1,3,5-Trinitrobenzene	0.25	2000 / 0.91	6.6 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
1,3-Dinitrobenzene	0.25	6.7 / 0.0038	0.073 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
2,4,6-Trinitrotoluene	0.25	33 / 0.086	6.4 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
2,4-Dinitrotoluene	0.25	6.9 / 0.0027	2.5 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
2,6-Dinitrotoluene	0.25	6.9 / 0.0024	1.8 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
2-Amino-4,6-Dinitrotoluene	0.25	11 / 0.05	10 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
2-Nitrotoluene	0.25	21 / 0.016	9.9 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
3-Nitrotoluene	0.5	670 / 0.92	12 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
4-Amino-2,6-Dinitrotoluene	0.25	11 / 0.033	3.6 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
4-Nitrotoluene	0.4	270 / 0.22	22 <sup>3</sup>	NA	<	0.17	U	<	0.17	U	<	0.17	U	<	0.17	U
HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	0.25	1600 / 1.2	17 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
Nitrobenzene	0.25	34 / 0.18	2.2 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
Nitroglycerin	5.1	6.7 / 0.0069	13 <sup>3</sup>	NA	<	0.93	U	<	0.92	U	<	0.93	U	<	0.95	U
PETN (Pentaerythritol tetranitrate)	4	130 / 6.2	100 <sup>3</sup>	NA	<	0.84	U	<	0.83	U	<	0.83	U	<	0.86	U
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	0.26	43 / 0.018	7.5 <sup>3</sup>	NA	<	0.084	U	<	0.083	U	<	0.083	U	<	0.086	U
Tetryl (Methy-2,4,6-trinitrophenylnitramine)	0.5	270 / 0.55	0.99 <sup>3</sup>	NA	<	0.084	UJ	<	0.083	U	<	0.083	U	<	0.086	U
Metals																
Antimony	2	15 / 2.7	0.27 <sup>4</sup>	1	<	0.6	U	<	0.51	U	0.32	0.51	J	<	0.56	U
Barium	2	8100 / 220	330 <sup>5,6</sup>	300	64	0.18		110	0.15		72	0.15		60	0.17	
Copper	5	550 / 520	28 <sup>7</sup>	15	7.4	0.5		38	0.43		23	0.43		6.6	0.47	
Lead	0.9	500 / 1.5	11 <sup>8</sup>	15	9.2	0.8		27	0.68		16	0.68		9	0.75	
Magnesium	30	-- / --	-- / --	-- / --	3300	5		4900	4.3		3400	8.5	J	2000	4.7	
Potassium	300	-- / --	-- / --	-- / --	1700	50		3800	43		2700	85	J	1700	47	
Zinc	8	9900 / 1200	46 <sup>9</sup>	30	38	0.8		54	0.68		31	0.68		39	0.75	

Notes:

Screening levels less than the primary laboratory's LOQ are listed in red text

Results above the ecological screening criteria are shaded green.

Results above the soil-to-groundwater screening criteria are shaded blue.

Results above both the ecological and soil-to-groundwater screening criteria are shaded yellow.

<sup>1</sup> Achievable DLs, LODs, and LOQs are limits that an individual labortory can achieve when performing a specific analytical method.

<sup>2</sup> Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area, June 2012

<sup>3</sup> Ecological screening level values for explosives were selected as lower of TTCP (2009), weathered and aged soils; and LANL (2012)

<sup>4</sup> USEPA. 2005a. Ecological Soil Screening Levels for Antimony. Interim Final. OSWER Directive 9285.7-61. February

<sup>5</sup> USEPA. 2005b. Ecological Soil Screening Levels for Barium Interim Final. OSWER Directive 9285.7- 63. February

<sup>6</sup> TNRCC. 2005. September 2005 Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas RG-263 (Revised). Texas Natural Resource Conservation Commission

<sup>7</sup> USEPA. 2007. Ecological Soil Screening Levels for Copper Interim Final. OSWER Directive 9285.7-68. February

<sup>8</sup> USEPA. 2005. Ecological Soil Screening Levels for Lead Interim Final. OSWER Directive 9285.7-70. March

<sup>9</sup> USEPA. 2007. Ecological Soil Screening Levels for Zinc Interim Final. OSWER Directive 9285.7-73. June

<sup>10</sup> TCEQ Texas-Specific Soil Background Concentrations, <http://www.tceq.texas.gov/assets/public/remediation/trrp/background.pdf>

- DL = Detection Limit
- ID = Identification
- LANL = Los Alamos National Laboratory
- LOD = Limit of Detection
- LOQ = Limit of Quantification
- NA = Not Applicable
- OSWER = Office of Solid Waste and Emergency Response
- Qual = Qualifier
- TCEQ = Texas Commission on Environmental Quality
- TTCP = The Technical Cooperation Program
- U = Nondetect
- USEPA = United States Environmental Protection Agency

This section provides recommendations for Former Maneuver Area A (FTBLS-002-R-01).

#### **4.1 MUNITIONS RESPONSE SITE (MRS) DELINEATION**

DGM transect and grid surveys were completed throughout the Former Maneuver Area A MRS (FTBLS-002-R-01). The extent of MEC and MD was then evaluated to determine if the MRS was impacted as a whole or if the former use of the MRS appeared limited to more selected areas. Based on the results of the RI, it was concluded that the actual presence of MEC and significant amounts of MD were limited to Areas A, B, C, and D located in the northern portion of the MRS. No MC was identified at the Former Maneuver Area A MRS. Therefore, MC was not a factor in the delineation of the MRS.

#### **4.2 RECOMMENDATIONS**

MEC and MD were identified within the boundaries of the Former Maneuver Area A MRS during the completion of the RI field work. Based on the results of the field work, it is recommended that the MRS be subdivided into two MRSs to allow for a more accurate depiction of the conditions and risks associated with the former use of each area.

##### **4.2.1 Former Maneuver Area A (FTBLS-002-R-01)**

The portions of the MRS with MEC and significant MD present are recommended to remain designated as Former Maneuver Area A (FTBLS-002-R-01). The areas containing the MEC and MD were comprised of DGM Areas A, B, C, and D.

MD was identified along the western boundary of Area A and the northern boundary of Area B. Based on the close proximity of the Areas and the MD observed along the boundary between the Areas, Areas A and B are recommended to be combined as the eastern portion of MRS FTBLS-002-R-01. The land located between the Areas was included in the boundaries of the MRS as depicted on **Figure 4-1**.

MD was identified throughout DGM Areas C and D. The land located between the two Areas is elevated terrain (a large rock outcrop) that was inaccessible to the DGM field crews. Based on the presence of MEC and MD in Areas C and D, it appears that this portion of Former Maneuver Area A may have been historically utilized as a target for 4.2 mortars. It is reasonable to assume that the inaccessible area between the Areas C and D is also impacted with MEC and/or MD. Therefore, the land located between Areas C and D was included in the boundaries of the MRS as depicted on **Figure 4-1**.

##### **4.2.2 Uncontaminated Former Maneuver Area A (FTBLS-002-R-01A)**

Following the results of the visual survey, Areas E, F, G, H, I, J, K and L were designated as geophysical investigation areas. These 8 DGM areas encompass a total of 375 acres. The DGM

and subsequent intrusive investigations in these areas identified 25 MD items. This correlates to an average of 0.067 MD items per acre.

Based on the absence of MEC, the limited number of MD identified, and the sporadic distribution of the MD in the remaining portions of the MRS, the portions of the Former Maneuver Area A MRS not included within the boundaries of FTBLS-002-R-01 are recommended to be subdivided into a new MRS designated as Uncontaminated Maneuver Area A (FTBLS-002-R-01A) as shown on **Figure 4-1**.

This section presents the methodology and results of the MEC Hazard Assessment (HA) and MC Risk Screening-Level Assessment.

## **5.1 CONCEPTUAL SITE MODEL**

Information related to the current and historical use, physical and ecological characteristics, and munitions previously identified are included in Section 1 of this report. These components of the CSM have remained unchanged from the CSM developed for the Former Maneuver Area MRA in the 2011 SI (TLI Solutions 2011). The 2011 CSM indicated the following with regard to MEC, MD, and MC:

- The munitions types anticipated included small arms, pyrotechnics, and 4.2-inch mortar shells.
- Release mechanisms included intentional munition firing during training and/or maneuver exercises, and discarded or malfunctioned rounds.
- The area was utilized as a maneuver and training area. Therefore, penetration of the ground surface was not anticipated because firing lines and target areas had not been identified. Pyrotechnics were anticipated to be present on the surface. Penetration of mortar shells was not anticipated to exceed 18 to 24 inches.
- MEC density was anticipated to be low throughout the site. If small arms or target areas were present, MEC density was anticipated to be low in these areas.
- MD was anticipated to be scattered throughout all areas.
- MC was not identified by soil sampling. Potential MC from 4.2 inch mortar shells included iron, manganese, sulfur, phosphorus, copper, lead, zinc, aluminum, magnesium, titanium, chromium, white phosphorus, sulfur-trioxide chlorosulfonic acid solution (FS), 2,4,6-trinitrophenylmethylnitramine (tetryl), NC, NG, diethylphthalate, potassium nitrate, ethyl centralite, barium nitrate, lead styphnate, antimony sulfide, tetrazene.
- Precipitation and runoff may transport COCs into the groundwater.
- The potential existed for MEC and MD to be buried as a result of wind and water erosion.
- All MEC, MD, and MC pathways were considered incomplete.

Based on the data collected during the RI, the CSM has been revised as follows:

- Two target areas were identified during the RI at Former Maneuver Area A (FTBLS-002-R-01). MEC identified in these target areas was identified as 4.2 inch mortars. The majority of the MD identified were 4.2 inch mortar fragments. The 4.2-inch MEC/MD identified confirmed the use of the MRS as a target area. The remaining MD identified suggests maneuver activities were also completed in this area.
- Five MEC items were identified during the RI. The five MEC items were identified in the target areas located within the 1,119.69 acres of Former Maneuver Area A (FTBLS-002-R-

01). Based on the absence of MEC at Uncontaminated Former Maneuver Area A (FTBLS-002-R-01A) this pathway is considered to be incomplete.

- MD was identified throughout Former Maneuver Area A (FTBLS-002-R-01) and Uncontaminated Former Maneuver Area A (FTBLS-002-R-01A). MD at Former Maneuver Area A (FTBLS-002-R-01) is anticipated to be primarily related to target activities. Based on the identified types and locations, MD is anticipated to be randomly dispersed throughout Uncontaminated Former Maneuver Area A (FTBLS-002-R-01A) and related to training and maneuver activities.
- MC sampling was completed at all 100 percent coverage grids. No MC constituents were identified above the human health and ecological screening levels except lead which was within state-wide background levels. Therefore, the pathway for MC is considered to be incomplete.

The MEC CSMs are presented in **Figure 5-1 and 5-2**. The CSMs identify potentially complete or incomplete pathways for MEC sources and receptors at delineated MRSs. MEC exposure media primarily consists of surface soils, although shallow subsurface soils may be encountered by construction workers. CSMs were prepared for MC to reflect the fact that MC incremental samples were below their respective risk-screening levels or were within state-wide background concentrations established by the TCEQ (**Figure 5-3**). Groundwater pathways were considered incomplete due to the lack of MC contamination in surface soils discovered in the RI. Surface water/sediment pathways were considered incomplete since surface water is generally not present on the site except as short-lived streams and playas.

## **5.2 MEC RISK PATHWAY**

EM 1110-1-4009 (USACE 2007a) describes the process for conducting MEC risk characterization. The potential for an explosives safety hazard depends upon the presence of three critical elements. If one of these three elements is not present, there is not a complete pathway or, subsequently, any MEC risk. These three elements include:

- MEC source/presence
- MEC exposure receptor
- Potential for interaction between source and receptor

### **5.2.1 Sources of MEC**

The main factors affecting risk associated with MEC are the quantity and density of the MEC. The more MEC present at a MRS, the greater the risk for MEC exposure. In addition to MEC density, the following factors must be taken into consideration:

- Munitions type (e.g., high explosive, practice, etc.)?
- Is the munition fuzed or unfuzed?

- Was there a low order or incomplete detonation?
- Is the item UXO or discarded military munitions?

Anomaly density maps are presented on **Figures 3-9 through 3-12**.

### **5.2.2 Receptors**

MEC exposure receptors were considered by weighing exposure media and accessibility against the range of potential activities and uses that are likely to occur at each MRS. Potential receptors include site workers, construction workers, hunters, ranchers, trespassers, residents, and/or ecological receptors.

### **5.2.3 Interaction of MEC and Receptors**

The factors that affect risk that are associated with the interaction with MEC include:

- MEC contact potential: Based on MEC depth, site stability, and depth and type of receptor activity.
- Energy application: Examples include manual (picking up, moving item, accidental strikes) or mechanical (striking with heavy equipment, vehicle movement on surface), and/or no force.
- MEC sensitivity and potential severity: Based on type of MEC and classification of energetic materials used in the item.

MEC contact potential exists for MRS FTBLS-002-R-01 due to the presence of MEC on the surface and in the subsurface. No MEC was identified in MRS FTBLS-002-R-01A.

Energy application primarily includes manual methods, although the potential for mechanical contact is present along roads, utility corridors, and in areas of potential future development.

MEC sensitivity and potential sensitivity is related to the specific types of MEC. Based on the MEC and MD recovered during the intrusive investigation, there is a firm understanding of the MEC types expected to be encountered at each MRS.

## **5.3 MEC HAZARD ASSESSMENT**

The MEC HA (USEPA 2008) was selected as the risk assessment methodology for the MRSs that contained MEC items (i.e., FTBLS-002-R-01). The purpose of the MEC HA is to support the hazard management decision-making process by analyzing site specific information, and to support hazard communication. The MEC HA methodology differs from traditional methods of responding to releases of hazardous substances, pollutants, or contaminants. An explosive hazard can result in immediate injury or death; therefore, it is fundamentally different from assessing chronic chemical exposure and focuses on acute explosive hazards. Risks from MEC

are evaluated as either being present or not present. If the potential for an encounter with MEC exists, the potential risk of injury or death also exists. A MEC hazard assessment is structured around three components of potential explosive hazard incidents:

- Severity – the potential consequence (e.g., death, injury, property damage, etc.) of an explosion from a MEC item
- Accessibility – the likelihood of a receptor to come in contact with the MEC item
- Sensitivity – the likelihood that a receptor will interact with a MEC item and have it detonate

Each component is assessed by input factors, and each input factor is assigned a numeric score that reflects the relative contributions of the different input factors to the MEC hazard assessment. The nine input factors include:

- Severity
  - Energetic Material Type
  - Location of Additional Human Resources
- Accessibility
  - Site Accessibility
  - Potential Contact Hours
  - Amount of MEC
  - Minimum MEC Depth Relative to Maximum Intrusive Depth
  - Migration Potential
- Sensitivity
  - MEC Classification
  - MEC Size

The MEC hazard score does not result in a quantitative measure of explosive hazard; rather, the MEC hazard score falls within one of four defined ranges referred to as hazard levels, with hazard level 1 being the highest risk of explosive hazard, and hazard level 4 being the lowest risk of explosive hazard. The MEC HA worksheets, model assumptions, and output are included in **Appendix D**.

### **5.3.1 MEC HA Level Determination**

MEC was identified in MRS FTBLS-002-R-01. A MEC HA was required to be completed for MRS FTBLS-002-R-01 to determine the relative hazard associated with the known MEC in the MRS. Density of anomalies within the MRS is variable.

The types of MEC identified at FTBLS-002-R-01 included 4.2-inch HE mortars and 4.2-inch smoke mortars. Human receptors are present within the boundaries of the MRS, including ranchers and recreational users (hunters).

FTBLS-002-R-01 has a baseline MEC HA of 1, using the 4-point relative scale with 1 being highest hazard level and 4 being the lowest hazard level. These categories do not have specific meaning and do not quantify a MEC hazard, but are useful for comparing relative MEC hazards among MEC sites.

The completion of a surface cleanup at FTBLS-002-R-01 would result in a MEC HA of 2. The completion of a surface and subsurface cleanup at FTBLS-002-R-01 would result in a MEC HA of 3.

A MEC HA was not required for MRS FTBLS-002-R-01A since no MEC was identified in the MRS.

## **5.4 MUNITIONS CONSTITUENTS RISK SCREEN**

As described in **Section 2.8**, MC was sampled for at Former Maneuver Area A using incremental sampling. Maximum detected concentrations of MC were compared to Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels for human health risks. Maximum detected concentrations of MC were compared to screening levels for ecological risks. The source from which the ecological screening levels were obtained varies by constituent of concern. Human health and ecological screening levels are presented in **Table 2-2**. The results of the MC sampling and the comparison to the screening values are presented in **Tables 3-4 and 3-5**. MC sampling was conducted in the areas where MEC and/or MD were identified in the MRS. The results of the sampling were utilized to characterize the surface soils at the MRS.

### **5.4.1 Human Health Risk Screen**

Human health risks were evaluated based on the results of the incremental samples collected from the eighteen SUs located throughout the MRS. All sample results were nondetect for explosives and below TRRP screening levels for antimony, barium, copper, magnesium, potassium, and zinc. Lead was detected in all eighteen SUs with concentrations ranging from 6.8 mg/kg to 14 mg/kg. These concentrations exceeded the soil to groundwater screening level for lead (1.5 mg/kg).

As part of the TRRP rule, the agency developed state-wide background concentrations for metals. The state-wide background concentration for lead is 15 mg/kg. While the lead detected at the site exceeds the soil to groundwater screening levels, the concentrations detected on the site are within the background levels identified for the State of Texas.

Lead was detected in the composite soil samples collected at the BIP sample locations. Concentrations of lead ranged from 9 to 27 mg/kg at the four BIP composite sample locations.



The BIP sample locations with lead concentrations that exceeded the state-wide background concentrations are located in grids C1 and C7. The incremental soil samples collected from these same grids identified lead at 12 mg/kg in grid C1 and 7.7 mg/kg in grid C7. The incremental sampling was utilized for human health risk evaluation because it is considered to be representative of the constituent concentrations.

#### **5.4.2 Screening Level Ecological Risk Assessment**

Ecological risks were evaluated based on the results of the incremental samples collected from the eighteen SUs located throughout the MRS. All sample results were nondetect for explosives. Lead was detected in all eighteen SUs with concentrations ranging from 6.8 mg/kg to 14 mg/kg. Lead exceeded the ecological screening level (11 mg/kg) in seven of the eighteen SUs with concentrations ranging from 12 mg/kg to 14 mg/kg.

As part of the TRRP rule, the agency developed state-wide background concentrations for metals. The background concentration for lead was identified as 15 mg/kg. While the lead detected at the site exceeds the ecological screening levels, the concentrations detected on the site are within the background levels identified for the State of Texas.

Metals were detected in the four composite samples collected from the BIP sample locations at the site. Antimony, copper, lead and zinc were detected in concentrations exceeding their respective ecological soil screening levels. No additional metals were detected above screening levels in any of the composite samples collected for analysis.

The state-wide background concentration for antimony was identified as 1 mg/kg. While the antimony detected at the site exceeds the ecological screening levels, the concentrations detected on the site are within the background levels identified for the State of Texas.

Concentrations of copper, lead, and zinc exceeded the ecological screening and background levels. The BIP sample locations with copper, lead, and zinc concentrations that exceeded the state-wide background concentrations are located in grids C1 and C7. The incremental soil samples collected from these same grids identified these metals at concentrations below the state-wide background concentrations. The incremental sampling was utilized for human health and ecological risk evaluation because it is considered to be more representative of the constituent concentrations than discrete sampling.

### **5.5 MUNITIONS RESPONSE SITE PRIORITIZATION PROTOCOL**

This section discusses application of the MRSP for each of the MRSs. The MRSP was applied in accordance with 32 CFR Part 179 and the guidance provided in the DoD MRSP Draft Primer (DoD 2007). The MRSP worksheet tables for the MRSs are included in **Appendix E**.

In 2005, DoD published the MRSPP as a Federal Rule (32 CFR Part 179) to assign a relative risk priority to each defense site in the MMRP Inventory for response activities. These response activities are based on the overall conditions at each MRS taking into consideration various factors related to explosive safety and environmental hazards. The application of the MRSPP applies to all locations:

- That are or were owned, leased to, or otherwise possessed or used by DoD
- That are known to or are suspected of containing MEC or MC
- That are included in the MMRP Inventory

In assigning a relative priority for response activities, DoD generally considers MRSs posing the greatest hazard as being the highest priority. The MRSPP priority will be one factor in determining the sequence in which munitions response actions are funded. The following sections are a brief summary of the modules of the MRSPP and the results of the evaluations for the MRSs included in this RI.

### **5.5.1 Explosive Hazard Evaluation Module**

The Explosive Hazard Evaluation (EHE) module assesses the explosive hazards of a site based on the known or suspected presence of an explosive hazard. The EHE Module is composed of three factors, each of which has two to four data elements that are intended to assess the specific conditions at an MRS. Based on site-specific information, each data element is assigned a numeric score, and the sum of these values is the EHE Module score and is used to determine the corresponding EHE Module rating. The data elements are as follows:

- Explosive Hazard Factor. This factor includes the data elements Munitions Type and Source of Hazard and constitutes 40 percent of the EHE Module score.
- Accessibility Factor. This factor includes the data elements Location of Munitions, Ease of Access, and Status of Property and constitutes 40 percent of the EHE Module score.
- Receptor Factor (RF). This factor includes the data elements Population Density, Population Near Hazard, Types of Activities/Structures, and Ecological and/or Cultural Resources and constitutes 20 percent of the EHE Module score.

MRS FTBLS-002-R-01 received the EHE Module rating of A. This module rating was based on the MEC and MD found on the surface of the MRSs during the RI.

MRS FTBLS-002-R-01A received an EHE Module rating of C. This rating was based on the MD found on the surface of the MRS during the RI.

The EHE Module ratings are preliminary, awaiting stakeholder input. The EHE Module worksheet tables are presented in **Appendix E** and summarized in **Table 5-1**.

### **5.5.2 Chemical Warfare Material Hazard Evaluation Module**

The Chemical Warfare Materiel Hazard Evaluation (CHE) module provides an evaluation of the chemical hazards associated with the physiological effects of Chemical Warfare Materiel (CWM). The CHE Module is used only when CWM in the form of MEC or MC are known or suspected of being present at an MRS. Like the EHE Module, the CHE Module has three factors, each of which has two to four data elements that are intended to assess the conditions at an MRS. These factors are as follows:

- **CWM Hazard Factor.** This factor includes the data elements CWM Configuration and Sources of CWM and constitutes 40 percent of the CHE score.
- **Accessibility Factor.** This factor focuses on the potential for receptors to encounter the CWM known or suspected to be present on an MRS and consists of the data elements Location of CWM, Ease of Access, and Status of Property and constitutes 40 percent of the CHE score.
- **RF.** This factor focuses on the human and ecological populations that may be impacted by the presence of CWM and consists of the data elements Population Density, Population Near Hazard, Types of Activities/Structures, and Ecological and/or Cultural Resources and constitutes 20 percent of the CHE score.

Similar to the EHE Module, each data element is assigned a numeric value, and the sum of these values is the CHE Module score which is used to determine the corresponding CHE Module rating. If CWM is not known or suspected then the CHE Module rating is No Known or Suspected CWM Hazard.

Both MRSs received the Alternative CHE Module rating of No Known or Suspected CWM Hazard. No historical or physical evidence was found during the RI that indicated CWM was present at any of the MRSs. The CHE Module ratings are preliminary, awaiting stakeholder input. The worksheet tables are presented in **Appendix E** and summarized in **Table 5-1**.

### **5.5.3 Health Hazard Evaluation Module**

The Health Hazard Evaluation (HHE) module provides a consistent DoD-wide approach for evaluating the relative risk to human health and the environment posed by contaminants (i.e., MC) present at an MRS. The module has three factors that are as follows:

- **Contamination Hazard Factor (CHF).** This factor evaluates potential risk posed by contaminants and contributes a level of High (H), Medium (M), or Low (L) based on Significant, Moderate, or Minimal contaminants present, respectively.
- **Migration Pathway Factor (MPF).** This factor assesses the potential for MC or incidental contaminants to migrate from an MRS and contributes a level of H, M, or L based on Evident, Potential, or Confined pathways, respectively.

- RF. This factor evaluates the presence of receptors that may be exposed and contributes a level of H, M, or L based on Identified, Potential, or Limited receptors, respectively.

The HHE builds on the DoD Relative Risk Site Evaluation framework. The CHF, RF, and MPF are based on quantitative evaluation of MC and/or CERCLA hazardous substances and a qualitative evaluation of pathways and human and ecological receptors in surface soil, groundwater, surface water, and sediment. The HHE does not address subsurface soils. In addition, the HHE does not consider air as a pathway, because the risk through this medium from DoD munitions sites with soil contamination is generally minimal.

The H, M, and L levels for the CHF, RF, and MPF are combined in a matrix to obtain composite three-letter combination levels that integrate considerations of all three factors. The three-letter combination levels are organized by frequency and the combination of the frequencies results in the HHE Module rating.

Detections of MC resulted in the HHE being scored, but the concentrations of MC identified were below screening criteria and resulted in a “LLL” score for both sites. Both MRSs received the HHE Module rating of G because no MC was detected above screening criteria. The HHE Module ratings are preliminary, awaiting stakeholder input. The HHE Module worksheet tables are presented in **Appendix E** and summarized in **Table 5-1**.

#### **5.5.4 MRSP Priority Scores**

In accordance with the DoD MRSP Primer (DoD 2007), each MRS is assigned an MRSP Priority ranging from 1 to 8 (**Table 5-1**). Priority 1 indicates the highest potential hazard and Priority 8 indicates the lowest potential hazard. Only a site with a potential Chemical Warfare Hazard can receive a Priority of 1. The priority is determined by selecting the highest rating from amongst the EHE, CHE, and HHE Modules. For example, if the EHE rating is 2, the CHE rating is 5, and the HHE rating is 4, the priority assigned would be 2. The priority will be used to determine the future funding sequence of MRSs for further munitions response action.

##### **5.5.4.1 Former Maneuver Area A (FTBLS-002-R-01)**

The overall MRSP priorities for Former Maneuver Area A (FTBLS-002-R-01) were determined as follows:

- The EHE Module rating was A, which corresponds to a MRSP priority of 2.
- The CHE Module rating was No Known or Suspected CWM Hazard.
- The HHE Module rating was G, which corresponds to a MRSP priority of 8.
- Therefore, the overall MRSP priority for this MRS is 2 based on the EHE Module ratings.

**5.5.4.2 Uncontaminated Former Maneuver Area A (FTBLIS-002-R-03)**

The overall MRSPP priorities for Uncontaminated Former Maneuver Area A (FTBLS-002-R-01A) were determined as follows:

- The EHE Module rating was C, which corresponds to a MRSPP priority of 4.
- The CHE Module rating was No Known or Suspected CWM Hazard.
- The HHE Module rating was G, which corresponds to a MRSPP priority of 8.
- Therefore, the overall MRSPP priority for this MRS is 4 based on the EHE Module ratings.

**TABLE 5-1**  
**MRSPP RATINGS**  
**REMEDIAL INVESTIGATION FORMER MANEUVER AREA A**  
**FORT BLISS, EL PASO, TEXAS**

	<b>EHE</b>	<b>CHE</b>	<b>HHE</b>	<b>Draft MRS Priority Rating</b>
Former Maneuver Area A (FTBLS-002-R-01)	A (2)	No Known or Suspected CWM Hazard	G (8)	2
Uncontaminated Former Maneuver Area A (FTBLS-002-R-01A)	C (4)	No Known or Suspected CWM Hazard	G (8)	4

Notes:

1 = highest relative priority

8 = lowest relative priority

CHE = CWM Hazard Evaluation

CWM = Chemical Warfare Material

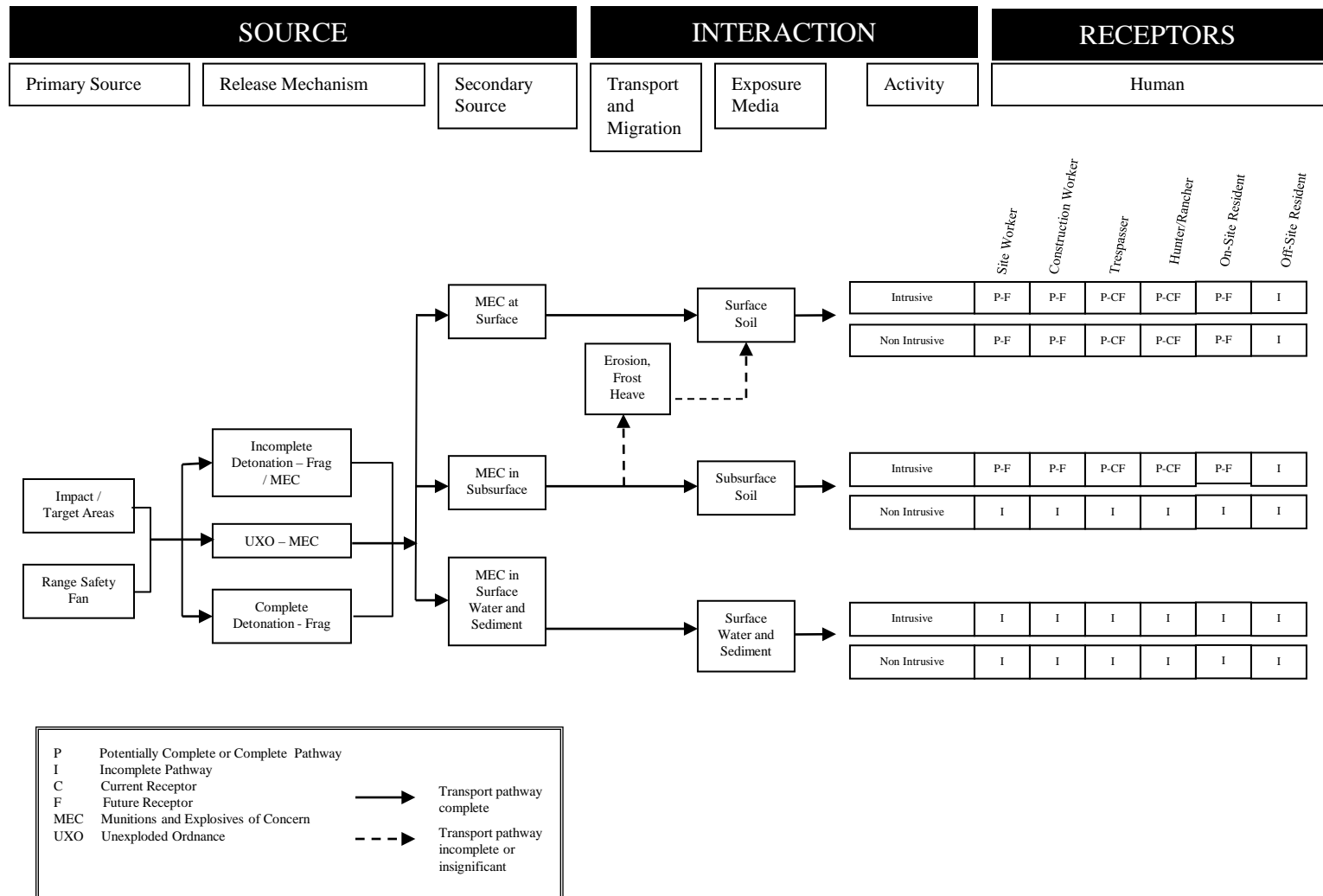
EHE = Health Hazard Evaluation

HHE = Health Hazard Evaluation

MRS = Munitions Response Site

MRSPP = Munitions Response Site Prioritization Protocol

**FIGURE 5-1**  
**MEC CONCEPTUAL SITE MODEL FOR FORMER MANEUVER AREA A (FTBLS-002-R-01)**  
**FORT BLISS, TEXAS**



**FIGURE 5-2**  
**MEC CONCEPTUAL SITE MODEL FOR UNCONTAMINATED FORMER MANEUVER AREA A (FTBLS-002-R-01A)**  
**FORT BLISS, TEXAS**

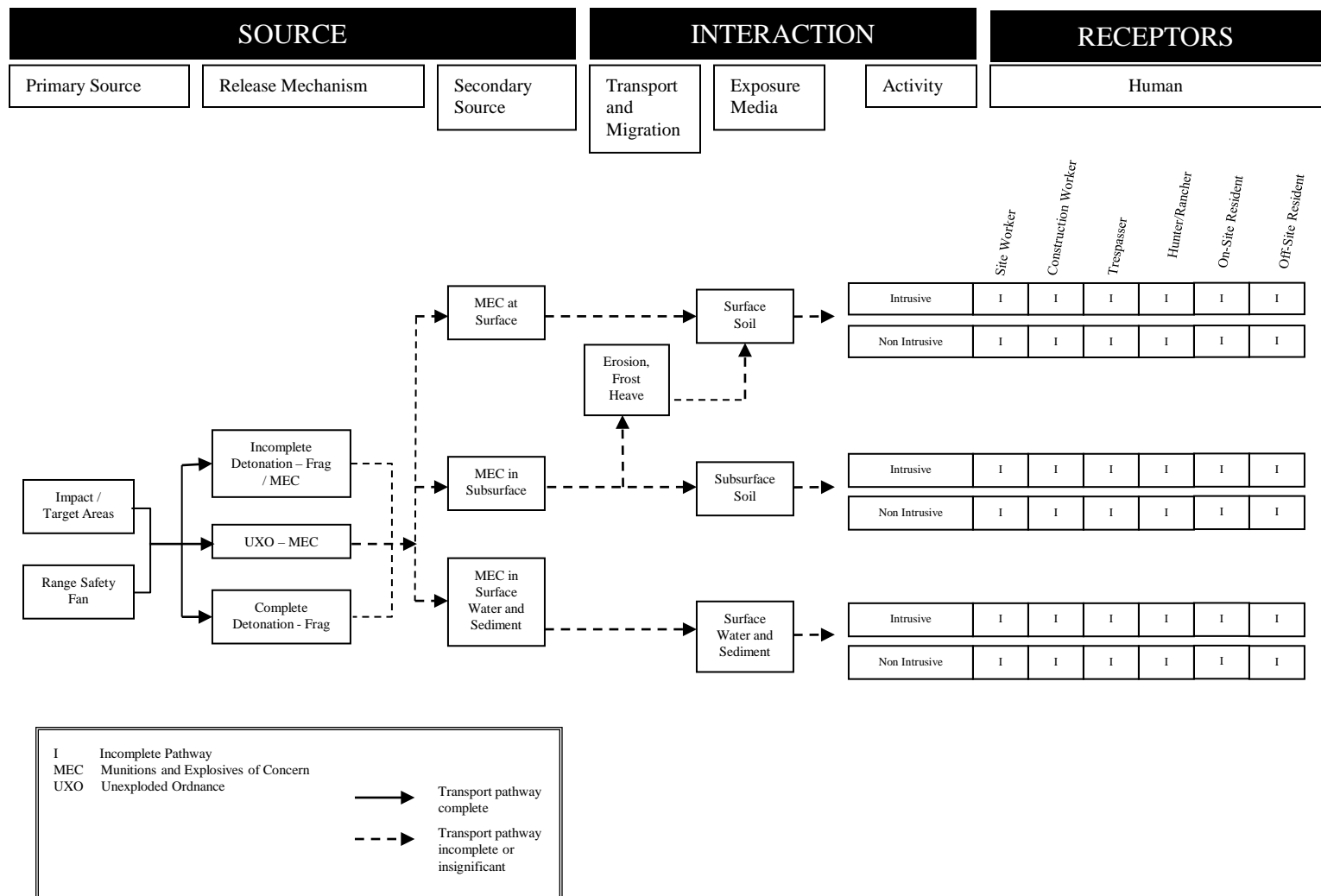
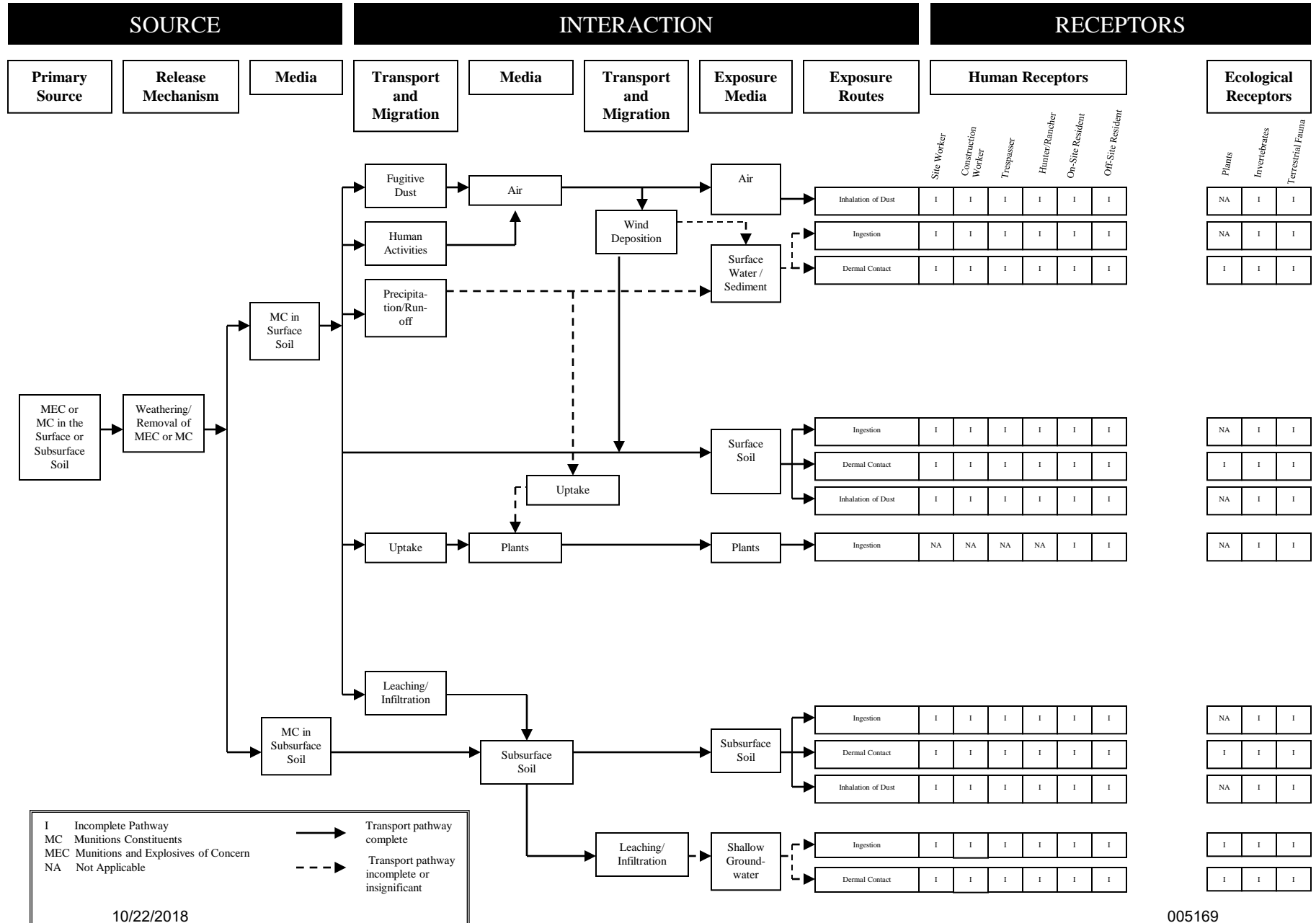




FIGURE 5-3

MC CONCEPTUAL SITE MODEL FOR FORMER MANUEVER AREA A (FTBLS-002-R-01) AND UNCONTAMINATED FORMER MANUEVER AREA A (FTBLS-002-R-01A) – FORT BLISS, TEXAS



This section summarizes the results obtained and conclusions reached as a result of the RI for Former Maneuver Area A at Fort Bliss near El Paso, Texas. Significant findings are summarized in this section and are reproduced directly or abstracted from information contained in this report. The conclusions provide general and comparative interpretations of the findings.

## **6.1 SUMMARY OF ACTIVITIES**

RI activities at the Former Maneuver Area A (FTBLS-002-R- 01) included a visual survey, vegetation removal, geophysical surveys, intrusive investigations, and MC sampling. This information was evaluated to determine the nature and extent of MEC and MC, assess MEC hazards and MC risk, and prepare the MRSP for the MRS.

## **6.2 SUMMARY OF FINDINGS**

MEC and MD were identified within the boundaries of the Former Maneuver Area A MRS during the completion of the RI field work. Based on the results of the field work, the portions of the MRS with MEC and MD present are recommended to remain designated as Former Maneuver Area A (FTBLS-002-R-01). The absence of MEC, the limited number of MD identified, and the sporadic distribution of the MD in the remaining portions of the MRS, the portions of the Former Maneuver Area A MRS not included within the boundaries of FTBLS-002-R-01 are recommended to be subdivided into a new MRS designated as Uncontaminated Maneuver Area A (FTBLS-002-R-01A).

### **6.2.1 Former Maneuver Area A (FTBLS-002-R-01)**

- **Type:** Former Maneuver Area
- **Size:** 1,119.69 acres
- **Site Features:** The site is comprised of Areas A, B, C, and D. Areas A, B, and C are comprised of fenced and gated land owned by (b) (6) and leased by (b) (6). Area D is owned by (b) (6) and is also fenced and gated.

Areas A, B, and C are reportedly utilized for ranching and recreational hunting. No cattle were observed at the time the field work was completed, but a corral in the area indicates it has occurred in the past. Dense vegetation consisting of thorn bushes, yucca, and cactus were observed in Areas A and B while Area C was observed to be relatively free of vegetation.

Area D is reportedly used for ranching but no cattle were observed on the land when the field work was completed. Area D is relatively flat and free of vegetation. No structures were observed in Area D.

- **Access:** The MRS is located outside of the Fort Bliss installation on land that is owned by a private individual (b) (6) and a (b) (6). Fences cross the MRS and separate the western parcel of the MRS between land owned by

(b) (6). These fences enclose the larger properties owned by the same landowners. While access to the larger properties encompassing the eastern and western parcels of the MRS is restricted by locked gates, once access is achieved to the larger property no barriers are present to prevent access to the MRS.

- **Visual Survey Results:** 360 MD items were identified during the visual survey. Since the survey was completed using MEC and anomaly avoidance techniques, the type and quantity were noted and the items were left in place.
- **Geophysical Investigation Results:** One MEC item was identified during anomaly reacquisition. The MEC item was disposed of by the Fort Bliss EOD. DGM identified 1,186 anomaly targets for investigation in geophysical transects and grids. All anomaly targets were intrusively investigated. VSP indicates anomaly densities ranging from low to high throughout the MRS. The small areas of high density depicted in the MRS indicate 4.2 inch mortar target areas.
- **Intrusive Investigation Results:** Four MEC items and 802 MD items were identified during the course of the intrusive investigation. All MEC items were disposed of in accordance with the work plan. All MD items recovered during the intrusive investigation were removed from the site.
- **MC Sampling:** MC sampling was performed for surface soils located in 15 SUs and four BIP sample locations throughout the MRS. Grid sampling utilized an incremental sampling method while BIP sampling utilized a composite sampling method. With the exception of lead, all incremental sample results were below the human health and ecological screening levels. Lead concentrations were identified in excess of the human health and ecological screening levels, but the concentrations were below the state-wide background concentrations established by the TCEQ.

Antimony, copper, and zinc were detected in concentrations exceeding their respective ecological soil screening levels at BIP sample locations. Lead was identified at concentrations exceeding the human health and ecological screening levels at BIP sample locations. No additional metals were detected above screening levels in any of the composite samples collected for analysis.

Antimony detected at the site exceeds the ecological screening levels, but is within the background levels identified for the State of Texas. Therefore, antimony is not considered to represent an ecological risk.

Concentrations of copper and zinc exceeded the ecological screening and background levels. Concentrations of lead exceeded the human health, ecological, and background levels. The BIP sample locations with copper, lead, and zinc concentrations that exceeded the state-wide background concentrations are located in grids C1 and C7. The incremental soil samples collected from these same SUs identified these metals at concentrations below the state-wide background concentrations. The incremental sampling was utilized for human health and

ecological risk evaluation because it is considered to be more representative of the constituent concentrations than discrete sampling.

Based on the results of the MC incremental sampling, no further action is recommended for MC at the MRS.

- **MEC HA:** 1
- **MRSPP Priority:** 2

### **6.2.2 Uncontaminated Maneuver Area A (FTBLS-002-R-01A)**

- **Type:** Former Maneuver Area
- **Size:** 23,356.99 acres
- **Site Features:** The MRS is divided into numerous parcels of varying size with approximately 2,514 landowners, although 83 percent of the MRS is owned by 21 landowners. The majority of the area is undeveloped, but portions of the MRS are currently developed with residential homes, commercial business, ranching, and light industry.
- **Access:** Access to these areas is limited by locked gates, fences, natural barriers (topography, vegetation, arroyos, etc.). However, the land is owned by state entities and private individuals so access to these areas is not within Army control. Numerous land owners either elected to decline the ROE request to access their property or did not respond to the ROE request. However, the visual and DGM surveys are considered to be representative of the conditions at the MRS and will apply to the properties not accessed during the field work.
- **Visual Survey Results:** 34 MD items were identified in the MRS during the visual survey. The type and quantity were noted and the items were left in place..
- **Geophysical Investigation Results:** DGM identified 478 anomaly targets for investigation in geophysical transects and grids. All anomaly targets were intrusively investigated. VSP indicates the density of anomalies is low throughout the MRS.
- **Intrusive Investigation Results:** No MEC items were identified at the MRS. However, 25 MD items were identified during the course of the intrusive investigation. All MD items recovered during the intrusive investigation were removed from the site.
- **MC Sampling:** MC sampling was performed for surface soils located in 3 SUs deemed representative of the MRS. Grid sampling utilized an incremental sampling method. No subsurface, sediment, or groundwater samples were required at the site. No BIP sample locations were located within this MRS. With the exception of lead, all sample results were below the human health and ecological screening levels. Lead concentrations were identified in excess of the human health and ecological screening levels, but the concentrations were below the state-wide background concentrations established by the TCEQ. Based on the results of the MC sampling, no further action is recommended for MC at the MRS.
- **MEC HA:** Not Applicable. A MEC HA was not developed for the MRS as no MEC was identified within the MRS during the RI.

- MRSPP Priority: 4

## **6.3 CONCLUSIONS**

The MRSs investigated by this RI have been adequately characterized.

### **6.3.1 Munitions and Explosives of Concern (MEC) Results**

#### **6.3.1.1 Former Maneuver Area A (FTBLS-002-R-01)**

Five MEC items were identified in Former Maneuver Area A (FTBLS-002-R-01). One MEC item (located in Area B) was disposed of by Fort Bliss EOD. The remaining MEC items were consolidated into two locations in Area C and disposed of by URS.

#### **6.3.1.2 Uncontaminated Maneuver Area A (FTBLS-002-R-01A)**

No MEC was identified in Uncontaminated Maneuver Area A (FTBLS-002-R-01A).

### **6.3.2 Munitions Constituents (MC) Results**

#### **6.3.2.1 Former Maneuver Area A (FTBLS-002-R-01)**

With the exception of lead, no concentrations of explosives or target metals were identified in the surface soil that exceeded the risk-based screening levels in the incremental samples collected. Lead concentrations in the incremental samples were within state-wide background concentrations for the State of Texas as determined by the TCEQ. Therefore, no subsurface soil or groundwater contamination is expected and MC do not pose a human health or ecological risk to site receptors.

#### **6.3.2.2 Uncontaminated Maneuver Area A (FTBLS-002-R-01A)**

With the exception of lead, no concentrations of explosives or target metals were identified in the surface soil that exceeded the risk-based screening levels in the incremental samples collected. Lead concentrations in the incremental samples were within state-wide background concentrations for the State of Texas as determined by the TCEQ; therefore, no subsurface soil or groundwater contamination is expected and MC do not pose a human health or ecological risk to site receptors.

## **6.4 RECOMMENDATIONS**

The results of the RI were used to provide the following recommendations:

- A feasibility study is recommended for MEC/MD at Former Maneuver Area A (FTBLS-002-R-01).

- No further action is recommended for MC at Former Maneuver Area A (FTBLS-002-R-01).
- A feasibility study is recommended for MC or MEC/MD at Uncontaminated Maneuver Area A (FTBLS-002-R-01A).
- No further action is recommended for MC at Uncontaminated Maneuver Area A (FTBLS-002-R-01A).

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- United States Army Engineering and Support Center, Huntsville (USAESCH). 2000. Procedures for Demolition of Multiple Rounds (consolidated Shots) on Ordnance and Explosives (OE) Sites. March
- United States Department of Agriculture (USDA) Soil Conservation Service (SCS). 1971. Soil Survey El Paso County, Texas. November.
- United States Environmental Protection Agency (USEPA). 2008. Interim Munitions and Explosives of Concern Hazard Assessment Methodology Document. EPA 505-B-08-001. October.
- Weather Explained. 2001. Weather Almanac, Volume 6, 2001 El Paso, Texas. Website visited March 21, 2012. <http://www.weatherexplained.com/Vol-6/2001-El-Paso-Texas-ELP.html>



Information on enclosed CD

# Memo

To: (b) (6), URS Project Manager  
From: (b) (6), URS QC Geophysicist  
CC: (b) (6) USACE QA Geophysicist, Darrell Hall, URS Project Geophysicist, (b) (6)  
(b) (6), URSUXOQCS, (b) (6) URS MMRP Quality Manager  
Date: 9/7/2018  
Re: Fort Bliss False Positive Levels

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## Issue

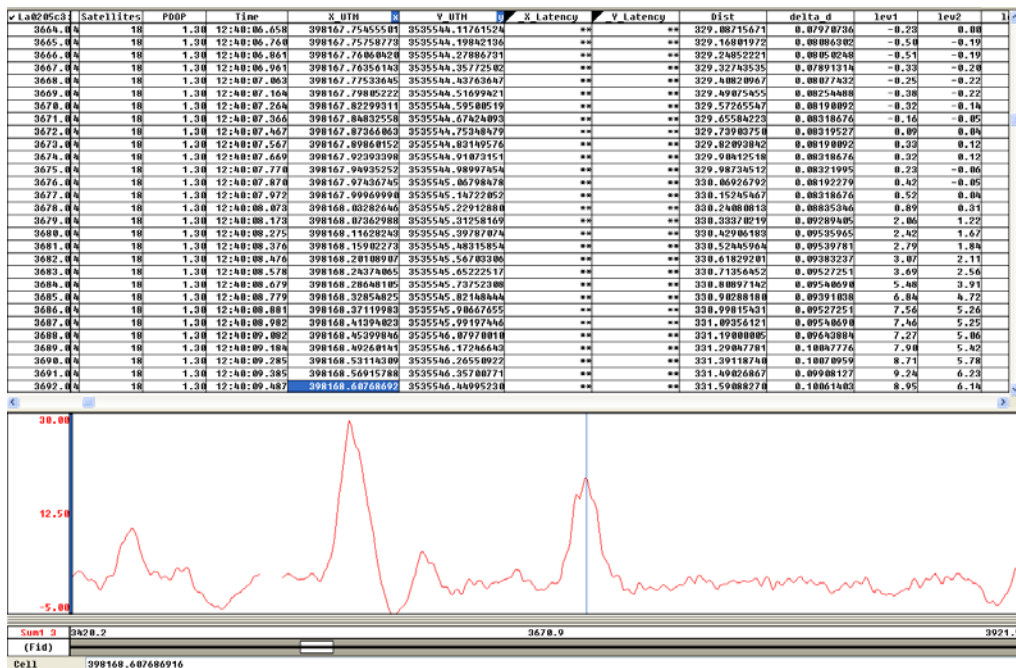


A high number of false positives have been reported by the intrusive investigation teams at Fort Bliss Former Maneuver Area A. 78 of 243 targets in Area C (32%) were reported as no finds or hot geology. The average response for these targets was 20.6 mV and the highest response was 47 mV on the SUM\_123 channel. Of 317 targets in Area D, 24% (76 targets) were reported as no finds or hot geology. The average response for these targets was 22.1 mV and the highest response was 65 mV. Table 4-1 of the work plan states that the QC Geophysicist will review and address no finds by dataset, but no recommended corrective action is listed.



## Causes

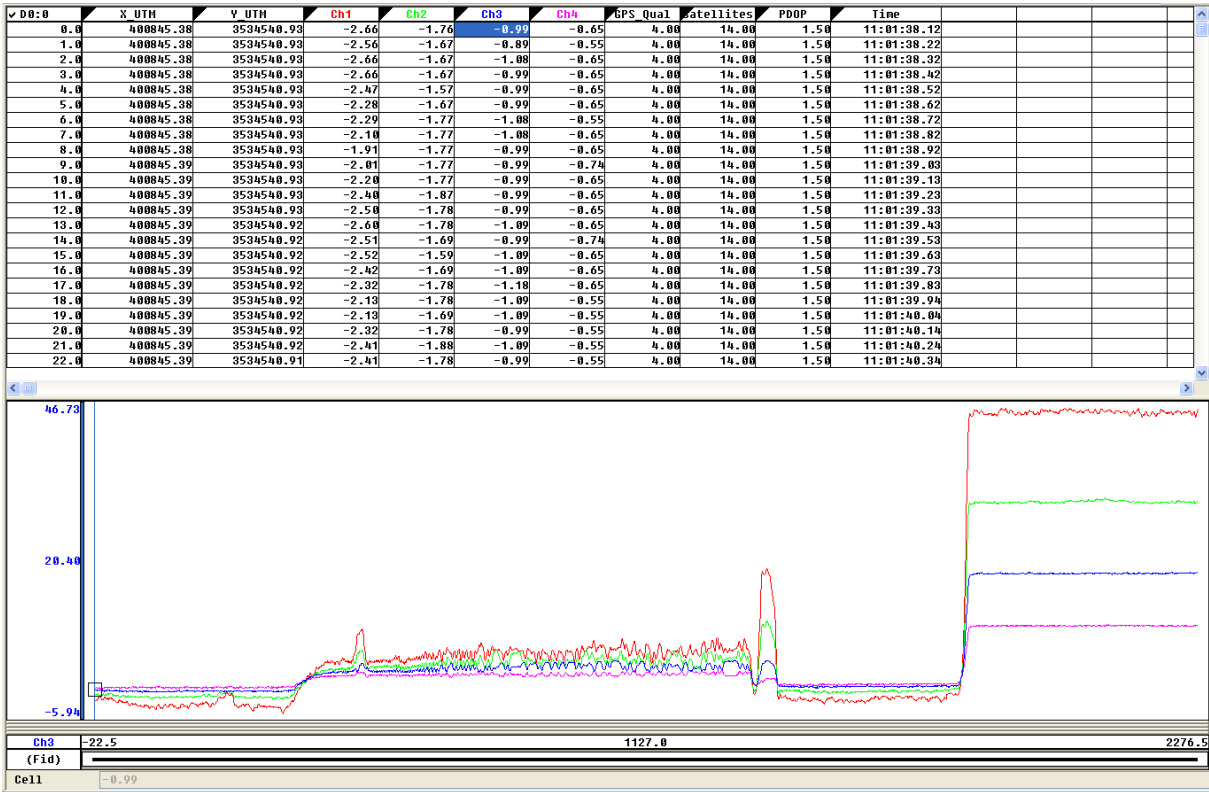
The terrain and vegetation at Fort Bliss Former Maneuver Area A made it necessary to collect EM61 data with the coil mounted on a litter. Collecting data with the EM61 on wheels is not feasible given the terrain and vegetation. While the DGM staff is experienced with rough terrain, it is nearly impossible to maintain a constant coil height while traversing these conditions. Changes in coil height relative to the ground result in elevated instrument responses that exhibit characteristics very similar to the response from metallic sources and exhibit normal decay parameters ( $Ch1 > Ch2 > Ch3$ ). These terrain features are more apparent in 100% coverage where they appear as linear features, but they are difficult to distinguish in transect data with wide (150 foot) line spacing. The image below shows an anomaly that produced 4.2-inch mortar frag on the left and a no find that was attributed to hot geology on the right.



A test was performed by the DGM collection team over a fixed location with the instrument nulled at a nominal 40cm height and data collected at 60cm, 20cm, 40cm, and 0cm without pausing the instrument or nulling.



The mean response on Channel 3 with the instrument at 60 cm was -1.16 mV, while lowering the instrument to 20cm made the response jump to 2.79 mV and even spike to 3.88 mV initially when the coil was lowered. Raising the instrument back to 40cm height brought the mean response back to -0.38 mV while lowering the coil all the way to the ground resulted in a mean response of 18.36 mV on Channel 3, well beyond our target picking threshold.

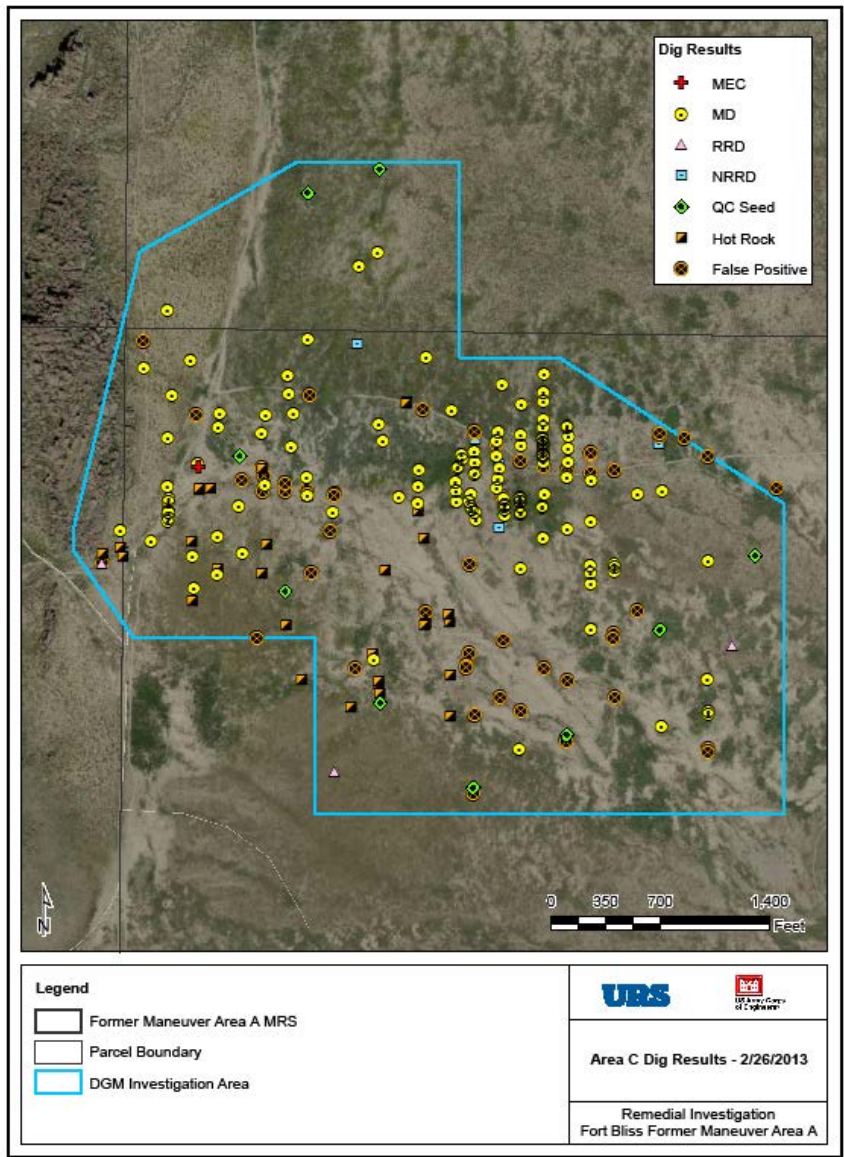




All seed items have been detected and targeted to date, confirming that this issue is not related to data positioning. The average target offset for the seed items is 0.18 meters and the largest offset is 0.45 meters.

### Consequences

Requiring the intrusive investigation teams to dig on “no finds” is a waste of resources and can erode confidence in the geophysical data and lead to potential complacency in intrusive operations. The difference between “no finds” and “hot geology” is not trivial and has been explained to the intrusive teams by the onsite QC Geophysicist. “Hot geology” refers to an actual elevated instrument response that is caused not by metallic sources but by rocks or soil that can be moved to reduce the instrument response. A “no find” refers to a location where the intrusive teams are unable to replicate the instrument response originally noted by the geophysical mapping team. The intrusive teams are listing the probable cause of the instrument response whenever possible, such as “berm” or “arroyo”. These features can be seen from the aerial photography and match the comments noted by the intrusive teams regarding the no finds.



## Recommendations

Table 3-2 of the work plan states that URS will dig up to 720 anomalies in Former Maneuver Area A, however at this time URS has been intrusively investigating all anomalies meeting the threshold criteria of 15 mV on the SUM\_123 channel. As a result there are no additional targets to be substituted for the targets classified as no finds.

URS does not recommend changing the project threshold or adjusting target selection to include time constants, anomaly power, or other metrics that may be able to better distinguish between metallic and non-metallic sourced anomalies. The additional effort resulting from the “hot geology” and “no find” intrusive investigations is not sufficient to justify the additional effort in establishing and demonstrating a new target selection criteria.

URS recommends that the UXOQCS and QC Geophysicist return to all targets with a response greater than 30 mV on the SUM\_123 channel to confirm that there is no source present at these locations. As of March 1<sup>st</sup>, this would be 33 targets, or 0.5% of the targets investigated to date.

### G.1 Daily Site Reports



UXO and Range Services



URS Corporation  
12120 Shamrock Plz Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: Remedial Investigation, Former Maneuver Area A  
Project Location: Fort Bliss, El Paso, TX  
Report No:0056  
Day/Date: Tuesday/ 7 May 2013

### DAILY SITE REPORT

**Weather:** (x) Clear ( ) P. Cloudy ( ) Cloudy Wind (Appx. Range): 5-10 MPH  
Temperature (High): 84 (Low): 62 Precipitation: N Site Conditions: N/A

### UXO Personnel on Site/Area of Responsibility/Daily Site Labor Hours (including subcontractors):

See attached list of project personnel on site. Total Site Labor Hours today: 12

**Work Performed:** (Indicate location of work performed including equipment used):  
Collected incremental samples from grids A1, A2, B1, B2, C1, C2, C3, 4, C5, and C7.  
Collected composite samples from BIP locations in grids B2, C7, and C1.  
Equipment on-site during completion of work consisted of RTK and Schonstedt.

**Ordnance or Ordnance Related Material Encountered, Condition and Location:** (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos): N/A

**Disposition of Ordnance Items Encountered, Include Dates:** (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition): N/A

**Verbal Instructions Received or Given:** (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):N/A

**Changed Conditions/Delays/Conflicts Encountered:** (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):N/A

**Other comments or additional information:** N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)





UXO and Range Services



URS Corporation  
12120 Shamrock Plz Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: Remedial Investigation, Former Maneuver Area A  
Project Location: Fort Bliss, El Paso, TX  
Report No:0057  
Day/Date: Wednesday/ 8 May 2013

### DAILY SITE REPORT

**Weather:** (x) Clear ( ) P. Cloudy ( ) Cloudy Wind (Appx. Range): 5-10 MPH  
Temperature (High): 84 (Low): 61 Precipitation: N Site Conditions: N/A

### UXO Personnel on Site/Area of Responsibility/Daily Site Labor Hours (including subcontractors):

See attached list of project personnel on site. Total Site Labor Hours today: 8

### Work Performed: (Indicate location of work performed including equipment used):

Collected incremental samples from grids L2, F1, J1, D5, D1, D4, D7, and D9.

Collected composite samples from BIP location in grid D4.

Equipment on-site during completion of work consisted of RTK and Schonstedt.

**Ordnance or Ordnance Related Material Encountered, Condition and Location:** (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos): N/A

**Disposition of Ordnance Items Encountered, Include Dates:** (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition): N/A

**Verbal Instructions Received or Given:** (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):N/A

**Changed Conditions/Delays/Conflicts Encountered:** (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):N/A

**Other comments or additional information:** N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0051  
Day/Date: Monday, 18 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 79 Lo 51 Winds: NE 10 – 20

Sunrise: 0712 Sunset: 1917

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team staked out five additional grids added in Transect Area C for DGM collection (C-4, C-5, C-6, C-7, and C-8 100% complete). Additional UXO personnel continued with site restoration in Transect Areas K, J, and I (all 100% complete). Southern MRS should show completed tomorrow 19 March 2013 following QC of F and L grids.

GEO Team began collection of data with grids located in Transect Area C, Grids C-4, C-5, C-6, C-7, and C-8 (100% complete).

Reacquisition of targets completed in the southern parcels grids G-1 and L-1 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 74.25 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

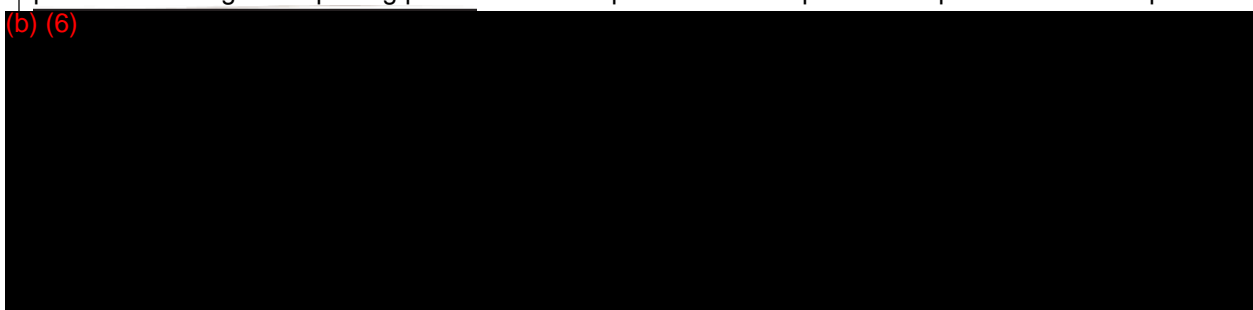
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)





URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0052  
Day/Date: Tuesday, 19 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 79 Lo 51 Winds: WSW 10 – 20

Sunrise: 0711 Sunset: 1917

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team completed site restoration in Transect Area D (100% complete). Southern MRS grids completed and all site cleared of pin flags and stakes. UXO Teams reacquired targets and intrusively cleared targets in Grids D-6, D-7, D-9 and Transect Area C added transect targets (all 100% completed).

GEO Team completed collection of data with grids located in Transect Areas B and D, Grids B-1, B-2, D-5, and D-8 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 35 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0053  
Day/Date: Wednesday, 20 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 79 Lo 57 Winds: SE 10 – 20

Sunrise: 0709 Sunset: 1918

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams reacquired targets and intrusively cleared targets in Grids C-4, C-5, C-6, C-7, and C-8 (all 100% complete).

GEO Team completed collection of data grid located in Transect Area A, Grid A-2 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 131.25 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

1 ea. 4.2" Screening Smoke Mortar (found 3/20/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

All three rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0054  
Day/Date: Thursday, 21 March 2013

### DAILY SITE REPORT

#### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Cloudy Hi 83 Lo 58 Winds: W 20 – 30 Gust to 40 mph Sunrise: 0708 Sunset: 1919

#### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams reacquired targets and intrusively cleared targets in Grids B-1, B-2, D-5, and D-8 (all 100% completed).

GEO Team completed collection of data grid located in Transect Area L, grid L-2 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 42 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

#### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/2013.

1 ea. 4.2" Screening Smoke Mortar (found 3/20/2013).

1 ea. 4.2" Screening Smoke Mortar (found 3/21/2013). Item moved to same location as the item found on 3/20/2013.

#### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

All four rounds awaiting disposal by detonation.

#### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

#### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

#### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0055  
Day/Date: Friday, 22 March 2013

### DAILY SITE REPORT

#### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Partly Cloudy Hi 83 Lo 58 Winds: W 20 – 30 mph

Sunrise: 0708 Sunset: 1919

#### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams reacquired targets and intrusively cleared targets in Grids A-2 and L-2 (all 100% completed).

Demo Team disposed of the four 4.2" mortars, 3 ea. Smoke and 1 ea. possibly WP (judging from photos from disposal operation)

SUXOS and UXOQC/SO inspected, processed, and secured 5 lbs. of MD categorized as MDAS. Three MDAS 55-gallon drums picked up to be delivered to Timberline for disposal (Drum Serial #765601, 765602, and 765603; 1500 lbs total)

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

#### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

#### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

#### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

#### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

#### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0004  
Day/Date: Monday, 03 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear Hi 73 Lo 43 Winds: WSW 10 Sunrise: 0651 Sunset: 1701

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Two full sections were swept and transect logged located at parcels 288975 and 17093. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 11 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - Six pieces of munitions fragmentation/debris located. All items were photographed and left in location found.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0005  
Day/Date: Tuesday, 04 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 68 Lo 41    Winds: N 5    Sunrise: 0651    Sunset: 1701

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted and the weekly rental vehicle inspections were performed.

Two full sections were swept and transect logged located at parcels 403036 and 60887. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 11 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - One piece of munition fragmentation/debris located, item was photographed and left in location found.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0006  
Day/Date: Wednesday, 05 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 70 Lo 39    Winds: N 5    Sunrise: 0651    Sunset: 1701

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Three full sections were swept and transect logged located at parcels 105590 and 211674 (which included one of the 100' transect swept areas containing potential MEC), and an additional parcel 367398. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 11 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - Ten pieces of munitions fragmentation/debris located, all items were photographed and left in location found.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0007  
Day/Date: Thursday, 06 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear Hi 73 Lo 37 Winds: SW - 7 Sunrise: 0653 Sunset: 1701

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Two full sections were swept and transect logged located at parcels 244479 and 279890 (which included one of the 100' transect swept areas containing potential MEC), and an additional five small parcels were completed 212730, 38345, 13891, 378531, and 374090. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 11 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - Ten pieces of munitions fragmentation/debris located, all items were photographed and left in location found.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0008  
Day/Date: Friday, 07 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 72 Lo 36    Winds: W – 10 - 15    Sunrise: 0654    Sunset: 1702

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Two full sections were swept and transects logged located at parcels 127191 and 235869, and an additional four small parcels were completed 13291, 163126, 137137, and 404946. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - Eight pieces of munitions fragmentation/debris located, all items were photographed and left in location found.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

### Contractor's Verification: The above report is complete and correct. All material and equipment used, and work

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URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0009  
Day/Date: Monday, 10 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 54    Lo 27    Winds: NNW – 5 - 10    Sunrise: 0656    Sunset: 1702

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted. Weekly rental vehicle inspection was completed.

Five full sections were swept and transects logged located at parcels 336777, 228739, 147381, 78142 and 114106. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - Three pieces of munitions fragmentation located, all items were photographed and left in location found.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

### Contractor's Verification: The above report is complete and correct. All material and equipment used, and work

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URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0010  
Day/Date: Tuesday, 11 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 52 Lo 28    Winds: NNW – 10 - 15    Sunrise: 0656    Sunset: 1702

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Two full sections were swept and transects logged located at parcels 278967 and 381736. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

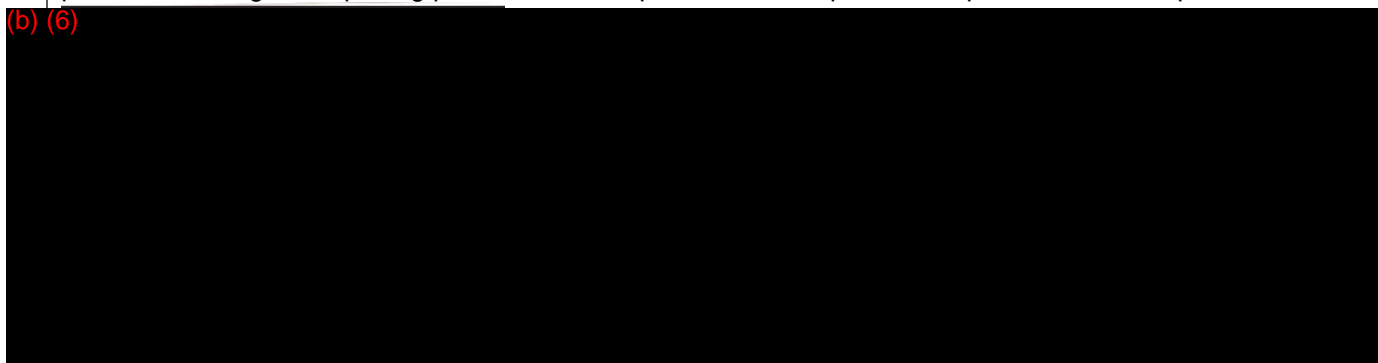
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0011  
Day/Date: Wednesday, 12 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 59 Lo 32    Winds: W – 5    Sunrise: 0657    Sunset: 1703

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Three full sections were swept and transects logged located at parcels 71502, 268713, and 94885. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

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Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0012  
Day/Date: Thursday, 13 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 64   Lo 43    Winds: W – 5 - 10    Sunrise: 0658   Sunset: 1703

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Two full sections were swept and transects logged located at parcels 261665 and 198520. MD was located and catalogued in by each member of the Visual Survey team in Parcel 198520. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - 180 pieces of munitions fragmentation/debris located, all items were photographed and left in location found.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0013  
Day/Date: Friday, 14 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 59 Lo 30    Winds: WSW – 30 - 40    Sunrise: 0659    Sunset: 1703

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

One full section was swept and transects logged located at parcel 80584. MD was located and catalogued in by each member of the Visual Survey team in this parcel. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - 178 pieces of munitions fragmentation/debris located, all items were photographed and left in location found.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0014  
Day/Date: Monday, 17 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 59 Lo 32    Winds: W 5 - 10 mph    Sunrise: 0701    Sunset: 1704

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Eleven full parcels were swept and transects logged located at parcels 200909, 326985, 107644, 2337965, 108591, 62390, 332350, 24245, 238596, 399040, and 328721. No MD was located. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - 0 pieces of munitions fragmentation/debris located.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0015  
Day/Date: Tuesday, 18 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 59 Lo 32    Winds: W 5 - 10 mph    Sunrise: 0701    Sunset: 1704

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Two full parcels were swept and transects logged located at parcels 144331 and 69277. No MD was located. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - 0 pieces of munitions fragmentation/debris located.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0016  
Day/Date: Wednesday, 19 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

Weather: Clear    Hi 55 Lo 23    Winds: W 30 - 40 mph, gusts to 60 mph    Sunrise: 0702    Sunset: 1705

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

One full parcel was swept and transects logged located at parcel 109304. No surface MD was located. All unknown anomalies were plotted into the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 12 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

MD - 0 pieces of munitions fragmentation/debris located.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0017  
Day/Date: Thursday, 20 December 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: De-Mobilization

Weather: Clear    Hi 48 Lo 23    Winds: ENE 5 - 10 mph    Sunrise: 0702    Sunset: 1706

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

All members de-mobilized from job site to home of records. Rental trucks and rental equipment returned and/or shipped to owner companies. Remaining equipment is securely stored on site until next phase of work continues.

Equipment On Site: 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

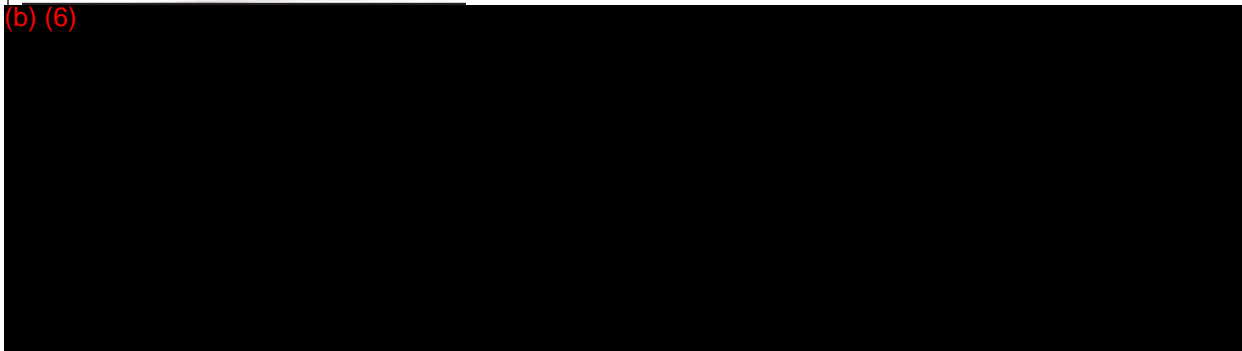
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0018  
Day/Date: Tuesday, 29 January 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Cloudy w/ snow flurries Hi 42 Lo 30 Winds: W 20 mph, Gusts to 30 mph Sunrise: 0701 Sunset: 1738

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Complete site brief to team members following safety brief. Team broke into groups to begin equipment inspection and bringing out of storage state. All rental vehicles were picked up from the local Enterprise (UXO a total of 5ea. 4 X 4 pickup trucks). GEO EM61 litter/stretchers were constructed for use along with locations visited for IVS and base station placement within the MRS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0019  
Day/Date: Wednesday, 30 January 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 52 Lo 30 Winds: WNW 10 - 15 mph

Sunrise: 0700 Sunset: 1739

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams cleared both locations for the IVS and base station installations. The UXO teams completed "Visual Surveys" on 20 each small parcels in the center of the MRS.

GEO teams assembled two EM61 hand-carry litters, established a control point along with setting up one base station location. Additionally the GEO teams checked all rental equipment for proper operation, insuring everything is in proper order for transect data collection.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0020  
Day/Date: Thursday, 31 January 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 59 Lo 32 Winds: N 5 - 10 mph

Sunrise: 0700 Sunset: 1739

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO teams completed "Visual Survey's" on 44 each small parcels in the center of the MRS.

GEOQC and UXOQC installed "Blind Seeds" as per the work plan in "Transect Areas" A and B.

GEO Teams qualified the EM61's through the IVS in accordance with the work plan. GEO team one collected DGM data in Transect Area B (50% completed), and GEO team two collected DGM data in Transect Area C (10% completed)

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0021  
Day/Date: Friday, 1 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 65 Lo 32 Winds: WNW 5 mph

Sunrise: 0659 Sunset: 1741

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Teams transferred all equipment from "In Town Storage" to a Pods storage unit located on site.

GEOQC and UXOQC installed "Blind Seeds" as per the work plan in "Transect Area" C (90% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0018  
Day/Date: Tuesday, 29 January 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Cloudy w/ snow flurries Hi 42 Lo 30 Winds: W 20 mph, Gusts to 30 mph Sunrise: 0701 Sunset: 1738

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Complete site brief to team members following safety brief. Team broke into groups to begin equipment inspection and bringing out of storage state. All rental vehicles were picked up from the local Enterprise (UXO a total of 5ea. 4 X 4 pickup trucks). GEO EM61 litter/stretchers were constructed for use along with locations visited for IVS and base station placement within the MRS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0019  
Day/Date: Wednesday, 30 January 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 52 Lo 30 Winds: WNW 10 - 15 mph

Sunrise: 0700 Sunset: 1739

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams cleared both locations for the IVS and base station installations. The UXO teams completed "Visual Surveys" on 20 each small parcels in the center of the MRS.

GEO teams assembled two EM61 hand-carry litters, established a control point along with setting up one base station location. Additionally the GEO teams checked all rental equipment for proper operation, insuring everything is in proper order for transect data collection.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0020  
Day/Date: Thursday, 31 January 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 59 Lo 32 Winds: N 5 - 10 mph

Sunrise: 0700 Sunset: 1739

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO teams completed "Visual Survey's" on 44 each small parcels in the center of the MRS.

GEOQC and UXOQC installed "Blind Seeds" as per the work plan in "Transect Areas" A and B.

GEO Teams qualified the EM61's through the IVS in accordance with the work plan. GEO team one collected DGM data in Transect Area B (50% completed), and GEO team two collected DGM data in Transect Area C (10% completed)

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0021  
Day/Date: Friday, 1 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 65 Lo 32 Winds: WNW 5 mph

Sunrise: 0659 Sunset: 1741

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Teams transferred all equipment from "In Town Storage" to a Pods storage unit located on site.

GEOQC and UXOQC installed "Blind Seeds" as per the work plan in "Transect Area" C (90% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0022  
Day/Date: Monday, 4 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 65 Lo 39 Winds: NNW 5 - 10 mph Sunrise: 0657 Sunset: 1744

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO teams completed "Visual Surveys" on 30 each small parcels in the center of the MRS. The Teams also scouted out the North Eastern Parcel containing an ellipsis.

GEO Teams qualified the EM61s through the IVS in accordance with the work plan. GEO team one collected DGM data in Transect Area B (100% completed) and they relocated to Area A (10% Complete), and GEO team two collected DGM data in Transect Area C (33% completed).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0023  
Day/Date: Tuesday, 5 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 68 Lo 41 Winds: NW 5 - 10 mph

Sunrise: 0656 Sunset: 1744

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO teams completed "Visual Surveys" on 31 each small parcels in the center of the MRS. The Teams also mapped the mountain bases of parcel areas 16314, 401393, 200909, and 200255 areas located in the southeast ellipses location in preparation to collect transect visual survey data tomorrow (100-foot transect spacing as per the work plan).

GEO Teams qualified the EM61s through the IVS in accordance with the work plan. Both GEO teams collectively collected DGM data in Transect Area C (90% completed).

UXOQC and GEOQC "Blind Seeded" Transect Area D (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0024  
Day/Date: Wednesday, 6 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 69 Lo 42 Winds: WSW 10 - 15 mph

Sunrise: 0655 Sunset: 1745

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams mapped all transects that were attainable in parcel areas 16314, 401393, 200909, and 200255 areas located in the southeast ellipses location (100-foot transect spacing as per the work plan).

GEO Teams qualified the EM61s through the IVS North in accordance with the work plan. Both GEO teams collectively collected DGM data in Transect Area D (50% completed). DGM was also collected and completed in Transect Area C (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0025  
Day/Date: Thursday, 7 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 67 Lo 39 Winds: W 5 - 10 mph

Sunrise: 0654 Sunset: 1742

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams completed Visual Survey of 30 additional small parcels completing all attainable parcels from medium size up to one square mile parcels.

GEO Teams qualified the EM61s through the IVS-North in accordance with the work plan. Both GEO teams collectively collected and completed DGM data collection in Transect Area D (100% completed).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0026  
Day/Date: Friday, 8 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Partly Cloudy Hi 70 Lo 42 Winds: SSE 15 - 20 mph

Sunrise: 0654 Sunset: 1747

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Teams set up the Base Station and install an IVS in the South area for DGM collection in that region. The teams also qualified their EM61s through the IVS-South in accordance with the work plan.

UXOQC, with assistance from a UXO Tech II, installed "Blind Seeds" as per the work plan in Transect Areas F, G, H, I, and L (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

### Contractor's Verification: The above report is complete and correct. All material and equipment used, and work and specifications except as noted above.

(b) (6)

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0027  
Day/Date: Monday, 11 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 60 Lo 36 Winds: SW 10 - 15 mph

Sunrise: 0651 Sunset: 1750

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Teams qualified the EM61s through the IVS-South in accordance with the work plan. GEO Team 1 completed DGM collection of data in Transect Areas F and L, and GEO Team 2 completed collection of DGM data in Transect Areas G and I (F, G, I, & L Transect Areas 100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0028  
Day/Date: Tuesday, 12 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 53 Lo 25 Winds: NW 10 - 20 mph gusts to 35 mph Sunrise: 0650 Sunset: 1751

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams worked in Transect Area A to clear safe passage for the GEO data collection teams who are utilizing a EM61 in Litter mode.

UXO Reacquire Team began reacquiring targets in Transect Area B for future intrusive investigation (100% complete).

GEO Teams qualified the EM61s through the IVS-North in accordance with the Work Plan. Geo Team One collected data in Transect Area J (60% completed), and GEO Team Two collected data in Transect Area K (70% completed).

UXOQC assisted by a UXO Tech II "Blind Seeded" Transect Areas E, J, and K (all Transect Blind Seeds are in place, 100% complete)

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer , 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

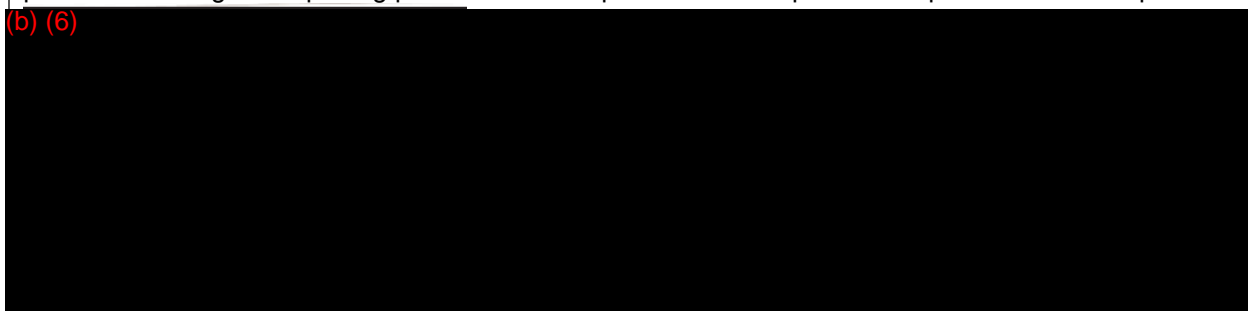
### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0029  
Day/Date: Wednesday, 13 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 56 Lo 28 Winds: NW 5 - 10 mph

Sunrise: 0649 Sunset: 1751

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams worked in Transect Area A to clear safe passage for the GEO data collection teams who are utilizing an EM61 in Litter mode.

UXO Reacquire Team began reacquiring targets in Transect Area C for future intrusive investigation (60% complete).

GEO Teams qualified the EM61s through the IVS-North in accordance with the Work Plan. Geo Team One collected data in Transect Area J (100% completed) and relocated to Transect Area H (100% complete). GEO Team Two collected data in Transect Area K (100% completed) and then relocated to Transect Area E (70% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

**Ordnance or Ordnance Related Material Encountered, Condition and Location:** (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):  
N/A

**Disposition of Ordnance Items Encountered, Include Dates:** (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):  
N/A

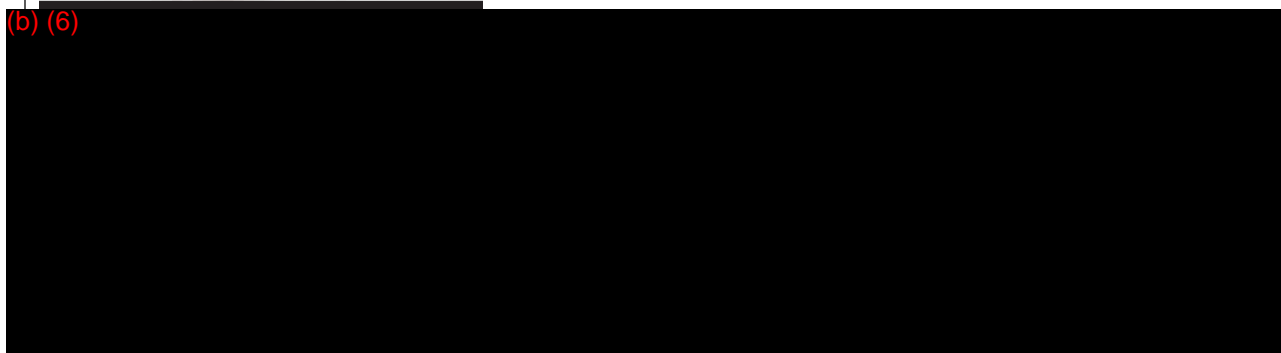
**Verbal Instructions Received or Given:** (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):  
N/A

**Changed Conditions/Delays/Conflicts Encountered:** (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):  
N/A

**Other comments or additional information:**  
N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0030  
Day/Date: Thursday, 14 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 62 Lo 33 Winds: Light and Variable

Sunrise: 0648 Sunset: 1752

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams continue to work in Transect Area A to clear safe passage for the GEO data collection teams who are utilizing an EM61 in Litter mode (75% complete).

UXO Reacquire Team continued to reacquiring targets in Transect Area C for future intrusive investigation (100% complete).

GEO Teams qualified the EM61s through the IVS North in accordance with the work plan. Both GEO Teams returned to Transect Area E to collect DGM data (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2 HE Mortar (found 2/13/13)

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Awaiting disposition by Ft. Bliss EOD

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

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URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0031  
Day/Date: Friday, 15 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 59 Lo 32 Winds: ENE 5 – 10 mph

Sunrise: 0647 Sunset: 1753

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams continue to work in Transect Area A to clear safe passage for the GEO data collection teams who are utilizing an EM61 in Litter mode (100% complete).

UXO Reacquire Team began reacquiring targets in Transect Area D for future intrusive investigation (40% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

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URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0032  
Day/Date: Tuesday, 19 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 70 Lo 42 Winds: S 20 – 30 mph

Sunrise: 0643 Sunset: 1756

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Team continued collection of data in Transect Area A (35% complete)

UXO Reacquire Team continued to reacquire targets in Transect Area D for future intrusive investigation (80% complete).

UXO Team began Visual Survey of remaining parcel (60% complete).

Ft. Bliss EOD team arrived to dispose of the 4.2" mortar found Thursday, 14 February in Transect Area B (target anomaly B-20). At 1208 mountain time round safely disposed, EOD departed MRS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

4.2" Mortar disposed of by detonation by Ft. Bliss EOD Team.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0033  
Day/Date: Wednesday, 20 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Partly Cloudy Hi 65 Lo 37 Winds: WSW 25 – 40 mph Gusts 40 – 70 mph Sunrise: 0642 Sunset: 1757

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Team completed collection of data in Transect Area A (100% complete)

UXO Reacquire Team completed reacquiring targets in Transect Area D for future intrusive investigation (100% complete).

UXO Team completed Visual Survey of remaining parcel (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0034  
Day/Date: Thursday, 21 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 55 Lo 35 Winds: W 20 – 30 mph

Sunrise: 0641 Sunset: 1758

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Received approved ESP and began intrusive operations. Intrusive operations began following a MEC safety brief provided by UXOSO. GEOQC provided refresher training on usage of the EM61 along with updates to the electronic dig sheet process.

UXO Teams began and completed intrusive investigation of target anomalies in Transect Area B (100% complete). The two teams relocated to Transect Area C to begin intrusive investigation of target anomalies in that area (5% complete).

SUXOS and UXOSO inspected, processed, and secured 30 lbs. of MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

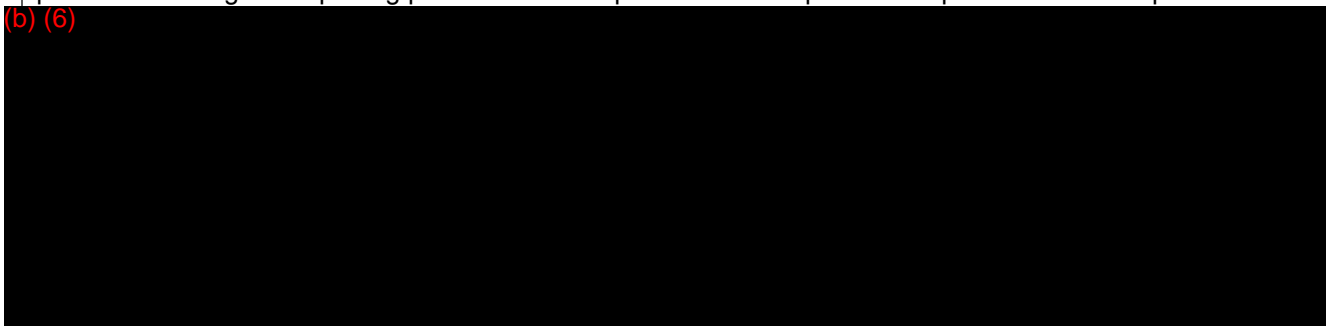
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0035  
Day/Date: Friday, 22 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 57 Lo 33 Winds: W 10 – 20 mph

Sunrise: 0640 Sunset: 1759

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continue intrusive investigation of target anomalies in Transect Area C (25% complete).

SUXOS and UXOSO inspected, processed, and secured 80 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC item is secured and appropriate security measures are being taken over the weekend prior to disposal on Monday.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0036  
Day/Date: Monday, 25 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 56 Lo 33 Winds: NW 10 – 20 mph

Sunrise: 0637 Sunset: 1801

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continue intrusive investigation of target anomalies in Transect Area C (78% complete).

SUXOS and UXOSO inspected, processed, and secured 100 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC item is secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0037  
Day/Date: Tuesday, 26 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 64 Lo 35 Winds: W 10 – 20 mph

Sunrise: 0636 Sunset: 1802

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continue and completed intrusive investigation of target anomalies in Transect Area C (100% complete). Both teams relocated into Transect Area D and completed 67 targets (23% complete).

At Target D-181 Team One located a 4.2" mortar full up with the nose fuse sheared off, no nomenclature visible but yellow paint with signs of gray paint (these indicators make is some kind of smoke round FS, SM, WP, or PWP).

SUXOS and UXOSO inspected, processed, and secured 156 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0038  
Day/Date: Wednesday, 27 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 64 Lo 35 Winds: W 10 – 20 mph

Sunrise: 0636 Sunset: 1802

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continue intrusive investigation of target anomalies in Transect Area D and completed 150 targets (70% complete).

SUXOS and UXOSO inspected, processed, and secured 121 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0039  
Day/Date: Thursday, 28 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 58 Lo 34 Winds: N 5 – 10 mph

Sunrise: 0634 Sunset: 1803

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continued and completed intrusive investigation of target anomalies in Transect Area D; 105 targets completed (100% complete).

SUXOS and UXOSO inspected, processed, and secured 77 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0040  
Day/Date: Friday, 01 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 62 Lo 35 Winds: NNE 10 – 15 mph

Sunrise: 0632 Sunset: 1804

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Reacquisition Team reacquired target anomalies in South Transect Areas E, F, G, H, I, and L (100%).

The UXO Team continued intrusive investigation of target anomalies in Transect Area F; completed 59 targets (26% complete).

SUXOS and UXOSO inspected, processed, and secured 0 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0041  
Day/Date: Monday, 04 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Partly Cloudy / Windy Hi 62 Lo 45 Winds: W 25 – 35 mph Gusts to 45 Sunrise: 0629 Sunset: 1806

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Reacquisition Team reacquired target anomalies in South Transect Areas J and K (100%).

The UXO Team Two continued intrusive investigation of target anomalies in Transect Area F; completed 104 targets (78% complete). UXO Team One completed intrusive investigation of target anomalies in Transect Areas E and H (100% completed).

SUXOS and UXOQC/SO inspected, processed, and secured 2.25 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

### Contractor's Verification: The above report is complete and correct. All material and equipment used, and work above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0042  
Day/Date: Tuesday, 05 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 66 Lo 43 Winds: ESE 15 – 25 mph

Sunrise: 0628 Sunset: 1807

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Reacquisition Team reacquired final Transect Area target anomalies in North Transect Areas A and D (100%).

UXO Team Two continued and completed intrusive investigation of target anomalies in Transect Area F; completed 47 targets (100% complete). Team Two relocated to Transect Areas G and I completing 100% of G and 99% of I. UXO Team One completed intrusive investigation of target anomalies in Transect Area L (100% complete) and began Transect Area J (15% completed).

SUXOS and UXOQC/SO inspected, processed, and secured 8 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0043  
Day/Date: Wednesday, 06 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 78 Lo 49 Winds: SSE 10 – 15 mph

Sunrise: 0627 Sunset: 1808

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One surface swept grids in Transect Area D for DGM collection. Grids D-1, D-2, D-3, and D-4 were cleared of all surface metals.

GEO Team collected additional transect data in Transect Area D and relocated collecting data in grids D-3 and D-4.

UXO Team Two completed intrusive investigation of target anomalies in Transect Area I (100% complete). The team relocated into Transect Area K completing 53 targets (100% complete), and then completed 8 targets in Transect Area J (36% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 51 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0044  
Day/Date: Thursday, 07 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 79 Lo 52 Winds: SSW 10 – 15 mph

Sunrise: 0625 Sunset: 1808

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One surface swept grids in Transect Area C for DGM collection. Grids C-1, C-2, and C-3 were cleared of all surface metals.

GEO Team collected additional transect data in Transect Area C and relocated collecting data in grids C-1, C-2, and C-3.

UXO Team Two continued intrusive investigation of targets in Transect Area J; completed 70 targets in Transect Area J (99% complete) and 20 added targets in Transect Area D (54%).

SUXOS and UXOQC/SO inspected, processed, and secured 66 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0045  
Day/Date: Friday, 08 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 74 Lo 44 Winds: SW 20 – 30 mph

Sunrise: 0624 Sunset: 1809

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One began intrusive investigation of targets in Transect Area A and with the assistance of UXO Team 2; completed all 53 targets (100% complete).

UXO Team Two continued intrusive investigation of targets in Transect Area J; completed the final 3 targets (100% complete), and 17 added targets in Transect Area D (100%).

GEO Team collected grid data in Transect Area D collecting data in grids D-1 and D-2.

SUXOS and UXOQC/SO inspected, processed, and secured 5 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

### Contractor's Verification: The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0046  
Day/Date: Monday, 11 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 67 Lo 42 Winds: Light and Variable

Sunrise: 0721 Sunset: 1912

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams One and Two performed vegetation removal in Transect Area B grid B-1 (100% complete).

GEO Team collected grid data in Transect Area F Grid F-1, Transect Area G Grid G-1, Transect Area J Grids J-1 and J-2, and Transect Area L Grid L-1.

SUXOS and UXOQC/SO inspected, processed, and secured 7 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

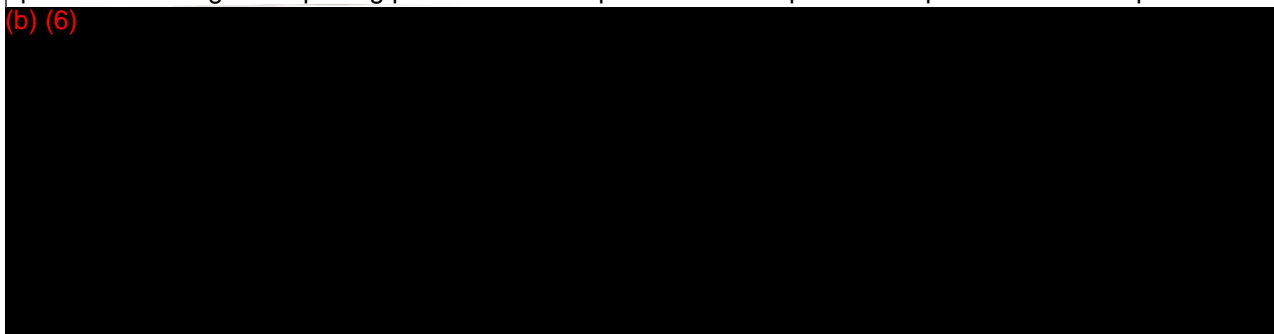
### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0047  
Day/Date: Tuesday, 12 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 74 Lo 44 Winds: Light and Variable

Sunrise: 0720 Sunset: 1912

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One and Two performed vegetation removal in Transect Area B grid B-2 (100% complete).

GEO Team collected grid data in Transect Area B grid B-2.

Reacquire Team reacquired targets in Transect Area D grids D-1, D-2, D-3, and D-4 and in Transect Area C grid C-1.

UXO teams One and Two completed intrusive investigation of targets in Transect Area D grids D-1, D-2, D-3, and D-4 (100% complete). Additionally they relocated to Transect Area C grid C-1 (10% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 50 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

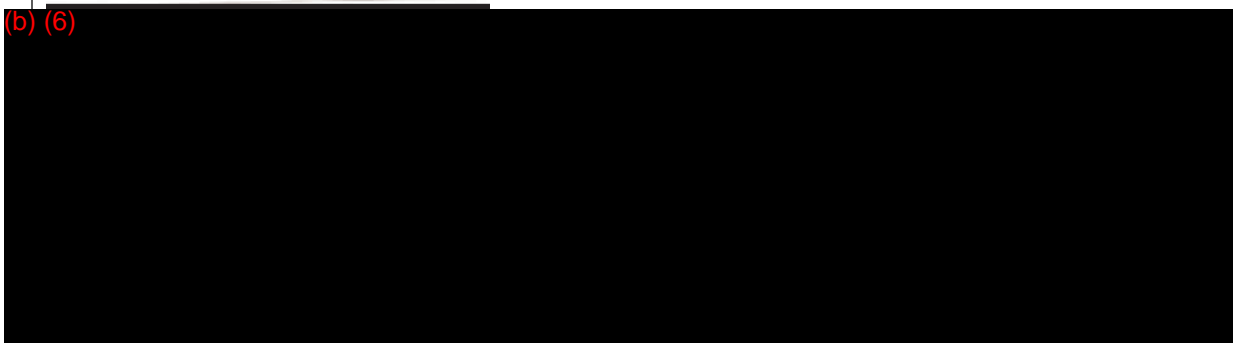
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)





URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0048  
Day/Date: Wednesday, 13 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 76 Lo 47 Winds: ESE 5 – 10 mph

Sunrise: 0718 Sunset: 1913

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One and Two performed vegetation removal in Transect Area A grid A-2 100% complete, grid A-1 25% complete.

UXO teams One and Two completed intrusive investigation of targets in Transect Area C grids C-2 and C-3 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 110 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0049  
Day/Date: Thursday, 14 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 80 Lo 51 Winds: Light and Variable

Sunrise: 0717 Sunset: 1914

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One and Two performed vegetation removal in Transect Area A grid A-1 100% complete.

UXO Teams One and Two completed site restoration in Transect Areas A, B, and C. 100% complete.

SUXOS and UXOQC/SO inspected, processed, and secured 0 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0050  
Day/Date: Friday, 15 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 85 Lo 54 Winds: SSW 5 – 10

Sunrise: 0716 Sunset: 1914

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team staked out five additional grids added in Transect Area D for DGM collection (D-5, D-6, D-7, D-8, and D-9 100% complete). Additional the UXO personnel continued with site restoration in Transect Area D (90% complete).

GEO Team began collection of data with grids located in Transect Area D, grids D-6, D-7, and D-9 (100% complete).

Reacquisition of targets began in the southern parcels grids J-1, J-2, and F-1 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 33 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

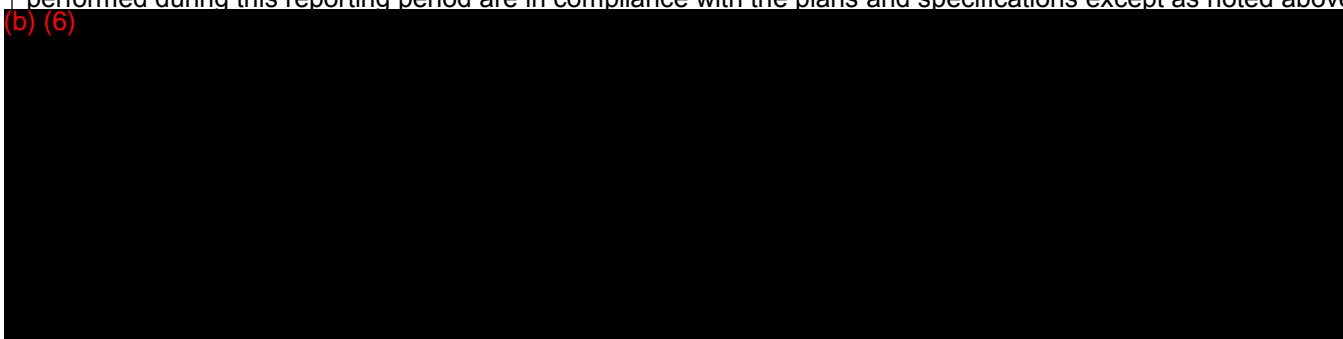
### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.





URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0051  
Day/Date: Monday, 18 March 2013

### DAILY SITE REPORT

#### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 79 Lo 51 Winds: NE 10 – 20

Sunrise: 0712 Sunset: 1917

#### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team staked out five additional grids added in Transect Area C for DGM collection (C-4, C-5, C-6, C-7, and C-8 100% complete). Additional UXO personnel continued with site restoration in Transect Areas K, J, and I (all 100% complete). Southern MRS should show completed tomorrow 19 March 2013 following QC of F and L grids.

GEO Team began collection of data with grids located in Transect Area C, Grids C-4, C-5, C-6, C-7, and C-8 (100% complete).

Reacquisition of targets completed in the southern parcels grids G-1 and L-1 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 74.25 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

#### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

#### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

#### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

#### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

#### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0052  
Day/Date: Tuesday, 19 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 79 Lo 51 Winds: WSW 10 – 20

Sunrise: 0711 Sunset: 1917

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team completed site restoration in Transect Area D (100% complete). Southern MRS grids completed and all site cleared of pin flags and stakes. UXO Teams reacquired targets and intrusively cleared targets in Grids D-6, D-7, D-9 and Transect Area C added transect targets (all 100% completed).

GEO Team completed collection of data with grids located in Transect Areas B and D, Grids B-1, B-2, D-5, and D-8 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 35 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

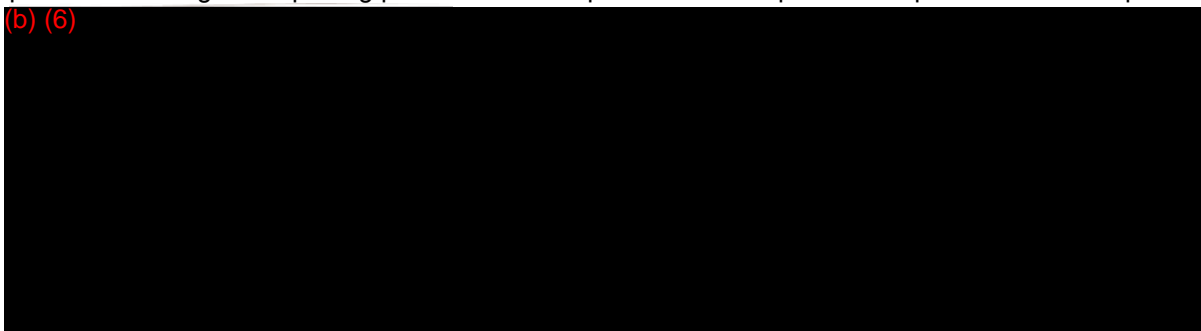
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0053  
Day/Date: Wednesday, 20 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 79 Lo 57 Winds: SE 10 – 20

Sunrise: 0709 Sunset: 1918

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams reacquired targets and intrusively cleared targets in Grids C-4, C-5, C-6, C-7, and C-8 (all 100% complete).

GEO Team completed collection of data grid located in Transect Area A, Grid A-2 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 131.25 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

1 ea. 4.2" Screening Smoke Mortar (found 3/20/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

All three rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0054  
Day/Date: Thursday, 21 March 2013

### DAILY SITE REPORT

#### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Cloudy Hi 83 Lo 58 Winds: W 20 – 30 Gust to 40 mph Sunrise: 0708 Sunset: 1919

#### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams reacquired targets and intrusively cleared targets in Grids B-1, B-2, D-5, and D-8 (all 100% completed).

GEO Team completed collection of data grid located in Transect Area L, grid L-2 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 42 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

#### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/2013.

1 ea. 4.2" Screening Smoke Mortar (found 3/20/2013).

1 ea. 4.2" Screening Smoke Mortar (found 3/21/2013). Item moved to same location as the item found on 3/20/2013.

#### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

All four rounds awaiting disposal by detonation.

#### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

#### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

#### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed, as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0055  
Day/Date: Friday, 22 March 2013

### DAILY SITE REPORT

#### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Partly Cloudy Hi 83 Lo 58 Winds: W 20 – 30 mph

Sunrise: 0708 Sunset: 1919

#### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams reacquired targets and intrusively cleared targets in Grids A-2 and L-2 (all 100% completed).

Demo Team disposed of the four 4.2" mortars, 3 ea. Smoke and 1 ea. possibly WP (judging from photos from disposal operation)

SUXOS and UXOQC/SO inspected, processed, and secured 5 lbs. of MD categorized as MDAS. Three MDAS 55-gallon drums picked up to be delivered to Timberline for disposal (Drum Serial #765601, 765602, and 765603; 1500 lbs total)

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

#### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

#### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

#### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

#### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

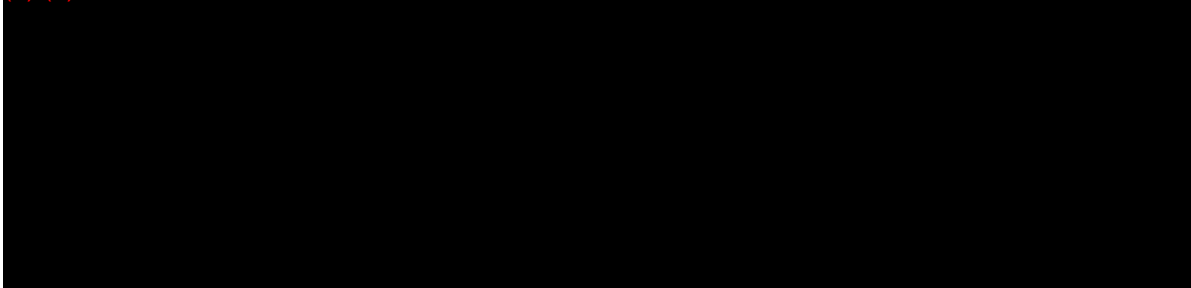
N/A

#### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0022  
Day/Date: Monday, 4 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 65 Lo 39 Winds: NNW 5 - 10 mph

Sunrise: 0657 Sunset: 1744

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO teams completed "Visual Surveys" on 30 each small parcels in the center of the MRS. The Teams also scouted out the North Eastern Parcel containing an ellipsis.

GEO Teams qualified the EM61s through the IVS in accordance with the work plan. GEO team one collected DGM data in Transect Area B (100% completed) and they relocated to Area A (10% Complete), and GEO team two collected DGM data in Transect Area C (33% completed).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0023  
Day/Date: Tuesday, 5 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 68 Lo 41 Winds: NW 5 - 10 mph

Sunrise: 0656 Sunset: 1744

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO teams completed "Visual Surveys" on 31 each small parcels in the center of the MRS. The Teams also mapped the mountain bases of parcel areas 16314, 401393, 200909, and 200255 areas located in the southeast ellipses location in preparation to collect transect visual survey data tomorrow (100-foot transect spacing as per the work plan).

GEO Teams qualified the EM61s through the IVS in accordance with the work plan. Both GEO teams collectively collected DGM data in Transect Area C (90% completed).

UXOQC and GEOQC "Blind Seeded" Transect Area D (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0024  
Day/Date: Wednesday, 6 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 69 Lo 42 Winds: WSW 10 - 15 mph

Sunrise: 0655 Sunset: 1745

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams mapped all transects that were attainable in parcel areas 16314, 401393, 200909, and 200255 areas located in the southeast ellipses location (100-foot transect spacing as per the work plan).

GEO Teams qualified the EM61s through the IVS North in accordance with the work plan. Both GEO teams collectively collected DGM data in Transect Area D (50% completed). DGM was also collected and completed in Transect Area C (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

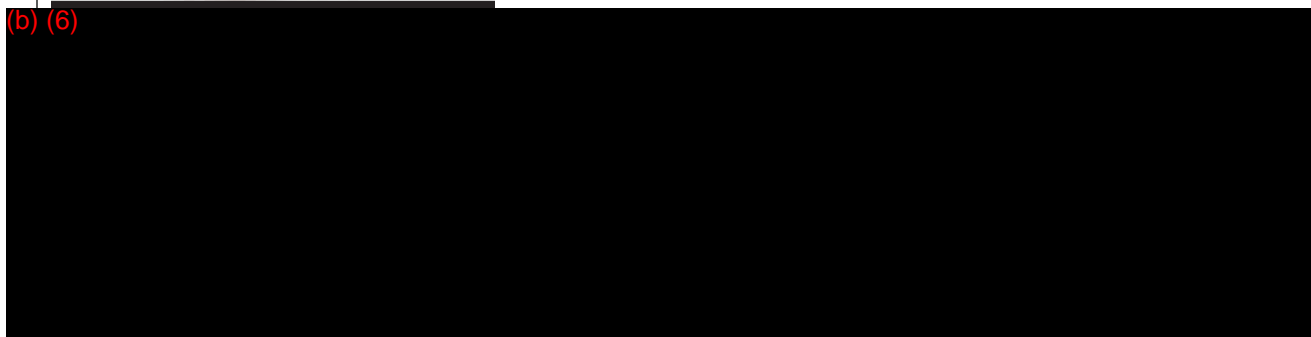
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)





URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0025  
Day/Date: Thursday, 7 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Mostly Sunny Hi 67 Lo 39 Winds: W 5 - 10 mph

Sunrise: 0654 Sunset: 1742

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams completed Visual Survey of 30 additional small parcels completing all attainable parcels from medium size up to one square mile parcels.

GEO Teams qualified the EM61s through the IVS-North in accordance with the work plan. Both GEO teams collectively collected and completed DGM data collection in Transect Area D (100% completed).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0026  
Day/Date: Friday, 8 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Partly Cloudy Hi 70 Lo 42 Winds: SSE 15 - 20 mph

Sunrise: 0654 Sunset: 1747

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Teams set up the Base Station and install an IVS in the South area for DGM collection in that region. The teams also qualified their EM61s through the IVS-South in accordance with the work plan.

UXOQC, with assistance from a UXO Tech II, installed "Blind Seeds" as per the work plan in Transect Areas F, G, H, I, and L (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0027  
Day/Date: Monday, 11 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 60 Lo 36 Winds: SW 10 - 15 mph

Sunrise: 0651 Sunset: 1750

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Teams qualified the EM61s through the IVS-South in accordance with the work plan. GEO Team 1 completed DGM collection of data in Transect Areas F and L, and GEO Team 2 completed collection of DGM data in Transect Areas G and I (F, G, I, & L Transect Areas 100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

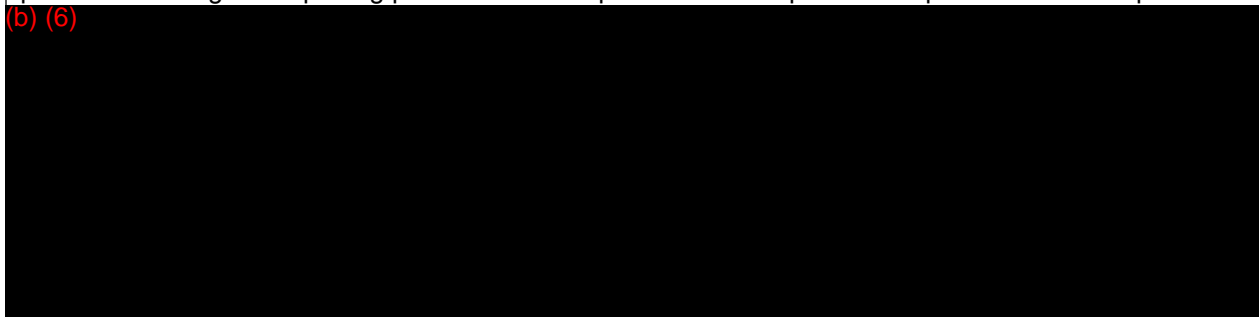
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0028  
Day/Date: Tuesday, 12 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 53 Lo 25 Winds: NW 10 - 20 mph gusts to 35 mph Sunrise: 0650 Sunset: 1751

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams worked in Transect Area A to clear safe passage for the GEO data collection teams who are utilizing a EM61 in Litter mode.

UXO Reacquire Team began reacquiring targets in Transect Area B for future intrusive investigation (100% complete).

GEO Teams qualified the EM61s through the IVS-North in accordance with the Work Plan. Geo Team One collected data in Transect Area J (60% completed), and GEO Team Two collected data in Transect Area K (70% completed).

UXOQC assisted by a UXO Tech II "Blind Seeded" Transect Areas E, J, and K (all Transect Blind Seeds are in place, 100% complete)

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0029  
Day/Date: Wednesday, 13 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 56 Lo 28 Winds: NW 5 - 10 mph

Sunrise: 0649 Sunset: 1751

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams worked in Transect Area A to clear safe passage for the GEO data collection teams who are utilizing an EM61 in Litter mode.

UXO Reacquire Team began reacquiring targets in Transect Area C for future intrusive investigation (60% complete).

GEO Teams qualified the EM61s through the IVS-North in accordance with the Work Plan. Geo Team One collected data in Transect Area J (100% completed) and relocated to Transect Area H (100% complete). GEO Team Two collected data in Transect Area K (100% completed) and then relocated to Transect Area E (70% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

**Ordnance or Ordnance Related Material Encountered, Condition and Location:** (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):  
N/A

**Disposition of Ordnance Items Encountered, Include Dates:** (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):  
N/A

**Verbal Instructions Received or Given:** (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):  
N/A

**Changed Conditions/Delays/Conflicts Encountered:** (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):  
N/A

**Other comments or additional information:**  
N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0030  
Day/Date: Thursday, 14 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 62 Lo 33 Winds: Light and Variable

Sunrise: 0648 Sunset: 1752

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams continue to work in Transect Area A to clear safe passage for the GEO data collection teams who are utilizing an EM61 in Litter mode (75% complete).

UXO Reacquire Team continued to reacquiring targets in Transect Area C for future intrusive investigation (100% complete).

GEO Teams qualified the EM61s through the IVS North in accordance with the work plan. Both GEO Teams returned to Transect Area E to collect DGM data (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 1 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2 HE Mortar (found 2/13/13)

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Awaiting disposition by Ft. Bliss EOD

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0031  
Day/Date: Friday, 15 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 59 Lo 32 Winds: ENE 5 – 10 mph

Sunrise: 0647 Sunset: 1753

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The UXO Teams continue to work in Transect Area A to clear safe passage for the GEO data collection teams who are utilizing an EM61 in Litter mode (100% complete).

UXO Reacquire Team began reacquiring targets in Transect Area D for future intrusive investigation (40% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0032  
Day/Date: Tuesday, 19 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 70 Lo 42 Winds: S 20 – 30 mph

Sunrise: 0643 Sunset: 1756

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Team continued collection of data in Transect Area A (35% complete)

UXO Reacquire Team continued to reacquire targets in Transect Area D for future intrusive investigation (80% complete).

UXO Team began Visual Survey of remaining parcel (60% complete).

Ft. Bliss EOD team arrived to dispose of the 4.2" mortar found Thursday, 14 February in Transect Area B (target anomaly B-20). At 1208 mountain time round safely disposed, EOD departed MRS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

4.2" Mortar disposed of by detonation by Ft. Bliss EOD Team.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work above.

(b) (6)

                      
Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0033  
Day/Date: Wednesday, 20 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Partly Cloudy Hi 65 Lo 37 Winds: WSW 25 – 40 mph Gusts 40 – 70 mph Sunrise: 0642 Sunset: 1757

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

GEO Team completed collection of data in Transect Area A (100% complete)

UXO Reacquire Team completed reacquiring targets in Transect Area D for future intrusive investigation (100% complete).

UXO Team completed Visual Survey of remaining parcel (100% complete).

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0034  
Day/Date: Thursday, 21 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 55 Lo 35 Winds: W 20 – 30 mph

Sunrise: 0641 Sunset: 1758

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Received approved ESP and began intrusive operations. Intrusive operations began following a MEC safety brief provided by UXOSO. GEOQC provided refresher training on usage of the EM61 along with updates to the electronic dig sheet process.

UXO Teams began and completed intrusive investigation of target anomalies in Transect Area B (100% complete). The two teams relocated to Transect Area C to begin intrusive investigation of target anomalies in that area (5% complete).

SUXOS and UXOSO inspected, processed, and secured 30 lbs. of MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0035  
Day/Date: Friday, 22 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 57 Lo 33 Winds: W 10 – 20 mph

Sunrise: 0640 Sunset: 1759

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continue intrusive investigation of target anomalies in Transect Area C (25% complete).

SUXOS and UXOSO inspected, processed, and secured 80 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Juno's, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC item is secured and appropriate security measures are being taken over the weekend prior to disposal on Monday.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0036  
Day/Date: Monday, 25 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 56 Lo 33 Winds: NW 10 – 20 mph

Sunrise: 0637 Sunset: 1801

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continue intrusive investigation of target anomalies in Transect Area C (78% complete).

SUXOS and UXOSO inspected, processed, and secured 100 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC item is secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0037  
Day/Date: Tuesday, 26 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 64 Lo 35 Winds: W 10 – 20 mph

Sunrise: 0636 Sunset: 1802

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continue and completed intrusive investigation of target anomalies in Transect Area C (100% complete). Both teams relocated into Transect Area D and completed 67 targets (23% complete).

At Target D-181 Team One located a 4.2" mortar full up with the nose fuse sheared off, no nomenclature visible but yellow paint with signs of gray paint (these indicators make is some kind of smoke round FS, SM, WP, or PWP).

SUXOS and UXOSO inspected, processed, and secured 156 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0038  
Day/Date: Wednesday, 27 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 64 Lo 35 Winds: W 10 – 20 mph

Sunrise: 0636 Sunset: 1802

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continue intrusive investigation of target anomalies in Transect Area D and completed 150 targets (70% complete).

SUXOS and UXOSO inspected, processed, and secured 121 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0039  
Day/Date: Thursday, 28 February 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 58 Lo 34 Winds: N 5 – 10 mph

Sunrise: 0634 Sunset: 1803

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Two UXO Teams continued and completed intrusive investigation of target anomalies in Transect Area D; 105 targets completed (100% complete).

SUXOS and UXOSO inspected, processed, and secured 77 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0040  
Day/Date: Friday, 01 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 62 Lo 35 Winds: NNE 10 – 15 mph

Sunrise: 0632 Sunset: 1804

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Reacquisition Team reacquired target anomalies in South Transect Areas E, F, G, H, I, and L (100%).

The UXO Team continued intrusive investigation of target anomalies in Transect Area F; completed 59 targets (26% complete).

SUXOS and UXOSO inspected, processed, and secured 0 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0046  
Day/Date: Monday, 11 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 67 Lo 42 Winds: Light and Variable

Sunrise: 0721 Sunset: 1912

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Teams One and Two performed vegetation removal in Transect Area B grid B-1 (100% complete).

GEO Team collected grid data in Transect Area F Grid F-1, Transect Area G Grid G-1, Transect Area J Grids J-1 and J-2, and Transect Area L Grid L-1.

SUXOS and UXOQC/SO inspected, processed, and secured 7 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0047  
Day/Date: Tuesday, 12 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 74 Lo 44 Winds: Light and Variable

Sunrise: 0720 Sunset: 1912

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One and Two performed vegetation removal in Transect Area B grid B-2 (100% complete).

GEO Team collected grid data in Transect Area B grid B-2.

Reacquire Team reacquired targets in Transect Area D grids D-1, D-2, D-3, and D-4 and in Transect Area C grid C-1.

UXO teams One and Two completed intrusive investigation of targets in Transect Area D grids D-1, D-2, D-3, and D-4 (100% complete). Additionally they relocated to Transect Area C grid C-1 (10% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 50 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0048  
Day/Date: Wednesday, 13 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 76 Lo 47 Winds: ESE 5 – 10 mph

Sunrise: 0718 Sunset: 1913

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One and Two performed vegetation removal in Transect Area A grid A-2 100% complete, grid A-1 25% complete.

UXO teams One and Two completed intrusive investigation of targets in Transect Area C grids C-2 and C-3 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 110 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0049  
Day/Date: Thursday, 14 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 80 Lo 51 Winds: Light and Variable

Sunrise: 0717 Sunset: 1914

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One and Two performed vegetation removal in Transect Area A grid A-1 100% complete.

UXO Teams One and Two completed site restoration in Transect Areas A, B, and C. 100% complete.

SUXOS and UXOQC/SO inspected, processed, and secured 0 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0050  
Day/Date: Friday, 15 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 85 Lo 54 Winds: SSW 5 – 10

Sunrise: 0716 Sunset: 1914

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team staked out five additional grids added in Transect Area D for DGM collection (D-5, D-6, D-7, D-8, and D-9 100% complete). Additional the UXO personnel continued with site restoration in Transect Area D (90% complete).

GEO Team began collection of data with grids located in Transect Area D, grids D-6, D-7, and D-9 (100% complete).

Reacquisition of targets began in the southern parcels grids J-1, J-2, and F-1 (100% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 33 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013). Item moved to same location as the item found on 2/22/13.

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0041  
Day/Date: Monday, 04 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Partly Cloudy / Windy Hi 62 Lo 45 Winds: W 25 – 35 mph Gusts to 45 Sunrise: 0629 Sunset: 1806

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Reacquisition Team reacquired target anomalies in South Transect Areas J and K (100%).

The UXO Team Two continued intrusive investigation of target anomalies in Transect Area F; completed 104 targets (78% complete). UXO Team One completed intrusive investigation of target anomalies in Transect Areas E and H (100% completed).

SUXOS and UXOQC/SO inspected, processed, and secured 2.25 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0042  
Day/Date: Tuesday, 05 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 66 Lo 43 Winds: ESE 15 – 25 mph

Sunrise: 0628 Sunset: 1807

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

The Reacquisition Team reacquired final Transect Area target anomalies in North Transect Areas A and D (100%).

UXO Team Two continued and completed intrusive investigation of target anomalies in Transect Area F; completed 47 targets (100% complete). Team Two relocated to Transect Areas G and I completing 100% of G and 99% of I. UXO Team One completed intrusive investigation of target anomalies in Transect Area L (100% complete) and began Transect Area J (15% completed).

SUXOS and UXOQC/SO inspected, processed, and secured 8 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0043  
Day/Date: Wednesday, 06 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 78 Lo 49 Winds: SSE 10 – 15 mph

Sunrise: 0627 Sunset: 1808

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One surface swept grids in Transect Area D for DGM collection. Grids D-1, D-2, D-3, and D-4 were cleared of all surface metals.

GEO Team collected additional transect data in Transect Area D and relocated collecting data in grids D-3 and D-4.

UXO Team Two completed intrusive investigation of target anomalies in Transect Area I (100% complete). The team relocated into Transect Area K completing 53 targets (100% complete), and then completed 8 targets in Transect Area J (36% complete).

SUXOS and UXOQC/SO inspected, processed, and secured 51 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0044  
Day/Date: Thursday, 07 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 79 Lo 52 Winds: SSW 10 – 15 mph

Sunrise: 0625 Sunset: 1808

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One surface swept grids in Transect Area C for DGM collection. Grids C-1, C-2, and C-3 were cleared of all surface metals.

GEO Team collected additional transect data in Transect Area C and relocated collecting data in grids C-1, C-2, and C-3.

UXO Team Two continued intrusive investigation of targets in Transect Area J; completed 70 targets in Transect Area J (99% complete) and 20 added targets in Transect Area D (54%).

SUXOS and UXOQC/SO inspected, processed, and secured 66 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0045  
Day/Date: Friday, 08 March 2013

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700 - 1730

Weather: Sunny Hi 74 Lo 44 Winds: SW 20 – 30 mph

Sunrise: 0624 Sunset: 1809

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

UXO Team One began intrusive investigation of targets in Transect Area A and with the assistance of UXO Team 2; completed all 53 targets (100% complete).

UXO Team Two continued intrusive investigation of targets in Transect Area J; completed the final 3 targets (100% complete), and 17 added targets in Transect Area D (100%).

GEO Team collected grid data in Transect Area D collecting data in grids D-1 and D-2.

SUXOS and UXOQC/SO inspected, processed, and secured 5 lbs. of MD categorized as MDAS.

Equipment On Site: 5 ea. rental trucks, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 3 ea. EM61 Magnetometer, 4 ea. Trimble RTK Rovers, 2 ea. Trimble RTK Base, 1 ea. Trimble RTK Repeater, 7 ea. Trimble Junos, 2 ea. Trimble GEOXH, 1 ea. RFD, 3 ea. digital cameras, 2 ea. URS Laptop Computers (Field 10 and 14), 1 ea. Verizon hotspot (Field 16), and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

1 ea. 4.2" Screening Smoke Mortar (found 2/22/2013).

1 ea. 4.2" Screening Smoke Mortar (found 2/26/2013).

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

Both rounds awaiting disposal by detonation.

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

MEC items are secured and appropriate security measures are being taken prior to disposal.

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0001  
Day/Date: Wednesday, 28 November 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1530

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Complete site equipment start up and inventory including initial rental vehicle weekly inspection.

Instrument Test Strip (ITS) installed at entry location of MRS.

Equipment On Site: 4 ea. rental vehicles, 1 ea. Trimble PDA TSC2, 8 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

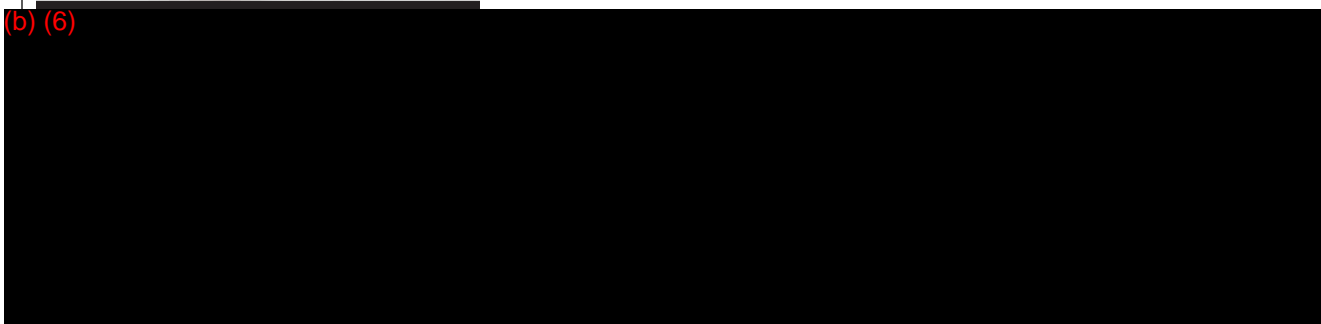
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)





URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0002  
Day/Date: Thursday, 29 November 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1230

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Team trained with the four PDA units we have on hand to prepare for tomorrow's full day of 200' transect sweeps.

Remaining 7 Trimble PDA units are expected to be onsite Friday 30 November 2012 at 1030.

Equipment On Site: 4 ea. rental vehicles, 4 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0003  
Day/Date: Friday, 30 November 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1730

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Remaining 7 Trimble PDA units arrived at 0900 and were placed into the field providing a full complement of sweep-line team members.

One and a half Sections were swept and transect logged North of John Miller's office and East of Hueco Tanks Road. All unknown anomalies were plotted in to the Junos for future use.

Equipment On Site: 4 ea. rental vehicles, 11 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0001  
Day/Date: Wednesday, 28 November 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1530

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Completed site equipment start up and inventory including initial rental vehicle weekly inspection.

Instrument Test Strip (ITS) installed at entry location of MRS.

Equipment On Site: 4 ea. rental vehicles, 1 ea. Trimble PDA TSC2, 8 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)



URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0002  
Day/Date: Thursday, 29 November 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1530

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Team trained with the four PDA units we have on hand to prepare for tomorrow's full day of 200' transect sweeps.

Remaining 7 Trimble PDA units are expected to be onsite Friday 30 November 2012 at 1030.

Equipment On Site: 4 ea. rental vehicles, 4 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)

Date

URS Corporation  
12120 Shamrock Plaza Suite 300  
Omaha, NE 68154  
URS Project #: 16170698

Project Name: MMRP Remedial Investigation  
Project Location: Former Maneuver Area A, Ft. Bliss, TX  
Report No: 0003  
Day/Date: Friday, 30 November 2012

## DAILY SITE REPORT

### UXO Personnel on Site/Area of Responsibility/Daily Site Operating Hours:

See Attached List of Project Personnel on site.

Site Operating Hours: 0700-1530

### Work Performed: (Indicate location of work performed including equipment used):

Initial site briefing and site-specific health and safety briefing conducted.

Remaining 7 Trimble PDA units arrived at 0900 and were placed into the field providing a full complement of sweep line team members.

One and a half sections were swept and transect logged north of John Miller's office and East of Hueco Tanks Road. All unknown anomalies were plotted into the Juno's for future use.

Equipment On-site: 4 ea. rental vehicles, 11 ea. Trimble PDA TSC2, 10 ea. Schonstedt magnetometers, 1 ea. White's all metal detector, 2 ea. digital cameras, 2 ea. URS Laptop Computers, and 1 ea. Printer.

### Ordnance or Ordnance Related Material Encountered, Condition and Location: (Include all UXO, Inert Items, Training Items, CWM, a description of unknown items include photos):

N/A

### Disposition of Ordnance Items Encountered, Include Dates: (i.e. Turn over to Military EOD, Disposal by detonation, Storage awaiting disposition):

N/A

### Verbal Instructions Received or Given: (List any instructions received from client or given by URS on UXO issues identified and the corresponding action to be taken):

N/A

### Changed Conditions/Delays/Conflicts Encountered: (List any conflicts which have hindered the identification, removal, and/or disposal of UXO containing energetic materials):

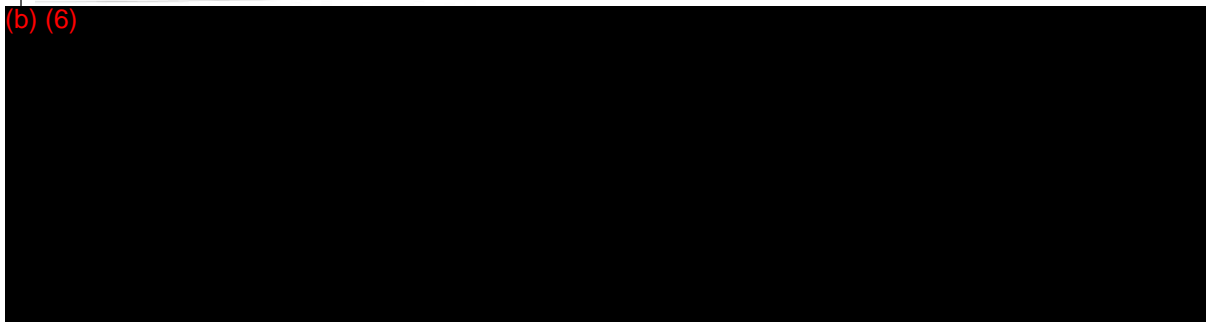
N/A

### Other comments or additional information:

N/A

**Contractor's Verification:** The above report is complete and correct. All material and equipment used, and work performed during this reporting period are in compliance with the plans and specifications except as noted above.

(b) (6)





## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** FT Bliss, El Paso, TX

**REPORT #:** 001

**DATE:** 29 Jan 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	<ul style="list-style-type: none"> <li>As part of the site-specific training and indoctrination, all site personnel participated in the preparatory phase of control for the following MEC-related Definable Features of Work (DFWs); Site and Grid Delineation, Detector-aided Surface Clearance of Transects and Grids, Vegetation Removal, Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations. Applicable plans, SOPs, PPE, QC criteria, safety, equipment, and the overall process were reviewed and briefed. All personnel in attendance were essential to the task to be conducted.</li> </ul>	
Initial		<b>SPECIFIC INSPECTIONS PERFORMED</b>
		None
Follow-Up		<b>SPECIFIC INSPECTIONS PERFORMED</b>
		None
<b>NON-COMPLIANT ITEMS IDENTIFIED TODAY</b>		<b>NON-COMPLIANT ITEMS CORRECTED TODAY</b>
NONE		NONE

**Additional Remarks:**

- Project pre-mobilization conference call was held on 09 Jan 2013. The following items were discussed: chain of command/responsibilities, project scope, schedule, administration, project codes, MEC discovery/disposal, Q/C, safety, equipment/supplies, lodging, and transportation.
- UXOQCS and/or GEOQC conducted verification reviews in accordance with Table 4-1 of the following definable features of work: Mobilization, Geodetic Accuracy, IVS Establishment, DGM, and Data Management. These features of work were prepared for the commencement of field operations and in compliance with requirements.
- Site-specific training and indoctrination was completed today for the following topics / items:
  - o Work site / office – Daily routine, vehicle assignments, administration (time sheets / expense reports)
  - o Remedial Investigation Work Plan – Project personnel / positions, goals/objectives, scope of work, and site history.
  - o Quality Control - purpose, quality control plan, three phase inspection process, final QC acceptance inspection process, definable features of work, inspection criteria, MMRP definitions (MEC, MPPEH, RRD, MD), non-conformance reports, equipment testing, QC seeding program, data base management.
  - o Site Safety Health Plan – purpose, PPE, Activity Hazard analysis, driving safety, biological hazards, weather, physical hazards, emergency procedures & hospital route, communications plan, MEC safety precautions, MSDS, spill plan, fire protection plan, federal employee rights,
  - o Explosive Site Plan – purpose, exclusion zone management, team separation distance, MSD & MGFD distances.

- Personnel Certifications: UXOSO began reviewing all site personnel certifications (EOD/UXO, OSHA 40 hour HAZWOPER, 8-hour refresher, OSHA Supervisor, 1<sup>st</sup> aid/CPR). Verification to be completed by 1/30/2013.
- Local spreadsheet in place to monitor personnel for refresher training and/or re-certification.
- All briefings, training, and indoctrination were of high quality and provided valuable information for all project personnel and were delivered in accordance with all applicable plans (WP, APP, SSHP, ESP)

- The following Preparatory Phase Inspection points/items listed for the appropriate definable Features of Work must be completed:

<u>Definable Feature of Work</u>	<u>Training/Briefing/Equipment required</u>
MEC Disposal	Review of SOP1. Equipment inventory. Waiting receipt of Remote Firing Device.
MPPEH Inspection	Waiting delivery of securable container for MDAS.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** FT Bliss, El Paso, TX

**REPORT #:** 002

**DATE:** 30 Jan 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
		None
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
		None
NON-COMPLIANT ITEMS IDENTIFIED TODAY	NON-COMPLIANT ITEMS CORRECTED TODAY	
NONE	NONE	

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
  - UXOSO/UXOQCS continuing review of personnel certifications.
- IVS Establishment:
  - Two areas with minimal background noise were selected, cleared by UXO personnel, and marked with stakes. No surface or sub-surface metal was found or detected which could cause potential interference.
  - The two IVS locations are designated as IVS-North and IVS-South for reporting and data purposes.
  - GEOQCS will review and brief EM-61 daily test/checks and forms to Geo personnel on 1/31/2013.
- Visual Survey:
  - UXOQCS observed Schonstedt detector function checks at the Instrument Test Strip (ITS) and observed Juno GPS control point collection. SUXOS will provide a test log to document daily Schonstedt function checks.
- Data Management:
  - UXOQCS will begin reviewing database entries on 2/4/2013 for correct nomenclature and standardization of data of entries.
  - GIS Mgr. will provide database to UXOQCS on a daily basis for review of accuracy and completeness.
  - GIS Mgr. will produce a daily progress map as verification that GPS/PDA data has been successfully downloaded and transferred.



- The following Preparatory Phase Inspection points/items listed for the appropriate definable Features of Work must be completed:  

<u>Definable Feature of Work</u>	<u>Training/Briefing/Equipment required</u>
MEC Disposal	Review of SOP1. Equipment inventory. Waiting receipt of Remote Firing Device.
MPPEH Inspection	Waiting delivery of securable container for MDAS.
- UXO Teams completed visual survey of 20 small parcels located within the MRS.
- GEO Teams continued assembly of EM-61 litters and conducted equipment checks.

(b) (6)

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** FT Bliss, El Paso, TX

**REPORT #:** 003

**DATE:** 31 Jan 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY
NONE		NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
  - UXOSO/UXOQCS continuing review of personnel certifications.
- Visual Survey:
  - UXOQCS observed Schonstedt detector function checks at the Instrument Test Strip (ITS) and observed Juno GPS control point collection. SUXOS will provide a test log to document daily Schonstedt function checks.
  - In accordance with Table 4-1, GIS Mgr. verified daily GPS/PDA field data was successfully downloaded and transferred for 1/30/2013. Daily visual survey progress map was produced by GIS Mgr.
- Geodetic Accuracy (Base-North):
  - In accordance with WP Table 4-1 and prior to DGM data collection, GEOQCS verified the two base control points (Base-North and Base-South) were located using 2+ hours of static GPS data corrected using OPUS reference data. OPUS reported precision errors are estimated to be 5 mm (0.5 cm). An OPUS Solution Report has been captured in the project files.
- IVS Establishment (IVS-North):
  - Geo Teams 1 & 2 completed daily EM-61 QC checks at IVS-North data using both litter mounted EM-61 magnetometers.
  - In accordance with WP Table 4-1, GEOQCS reviewed repeat data for IVS-North and verified amplitude and positional accuracy are within acceptance criteria.

Report continued on next page

- Detector aided Surface Clearance of Transects and Grids:
  - UXO personnel are providing MEC avoidance protocol for Geo Teams during collection of DGM data in transect areas (Transect Areas A-K) which were identified from the completed Visual Survey results within MRS.
  - UXOQCS observed and verified proper MEC avoidance protocol has been followed and is part of the daily safety brief until further notice.
- Intrusive Investigation:
  - In accordance with WP Table 4-1, UXOQCS and GEOQCS seeded Transect Areas "A" and "B" today.
  - Seed ID, depth, orientation, and GPS coordinates were recorded into the QC Seed Log.
- Data Management:
  - UXOQCS will begin reviewing data base entries on 2/4/2013 to ensure correct nomenclature and standardization of data of entries.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 2/30/2013 was backed up and stored properly. Daily verification of data backup will continue for the week of 4-8 February 2013 after which data backup will be verified on a weekly basis.
- The following Preparatory Phase Inspection points/items listed for the appropriate definable Features of Work must be completed:
 

<u>Definable Feature of Work</u>	<u>Training/Briefing/Equipment required</u>
MEC Disposal	Review of SOP1. Equipment inventory.
MPPEH Inspection	Waiting delivery of securable container for MDAS.
- Geo Team 1 completed daily EM-61 QC checks at IVS-North and collected DGM data in Transect Area "B" (50% complete).
- Geo Team 2 completed daily EM-61 QC checks at IVS-North and collected DGM data in Transect Area "C" (10% complete).
- UXO teams completed visual surveys of 44 small parcels in the MRS.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 004

**DATE:** 01 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory		
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE
<b><u>Additional Remarks:</u></b> <ul style="list-style-type: none"><li>Due to pending WP approval, the project crew was limited to 40 hours work this week. UXO Teams are off today. SUXOS and Geo Teams are moving equipment to storage locker near site.</li><li>UXOQCS and GEOQCS seeded Transect Area "C".</li></ul>		
On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.		(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 005

**DATE:** 04 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field: Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY	NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY	
NONE	NONE	

**Additional Remarks:**

- Mobilization:
  - UXOQCS completed verification of personnel training certifications. All required certifications have been produced. Personnel whose certifications expire in Feb/Mar have been identified and appointments/training are being scheduled.
  - Remedial Investigation Work Plan awaiting final approval.
- Visual Survey:
  - UXOQCS observed Schonstedt detector function checks at the Instrument Test Strip (ITS) and observed Juno GPS control point collection.
  - SUXOS provided a test log to document daily Schonstedt function checks.
  - In accordance with WP Table 4-1, GIS Mgr. verified daily GPS/PDA field data was successfully downloaded and transferred for 1/31/2013. Daily visual survey progress map was produced by GIS Mgr.
- Data Management
  - UXOQCS reviewed data base entries for 30-31 Jan 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 1/31/2013 was backed up and stored properly.

Continued next page

- Geo Team 1 completed daily EM-61 QC checks at IVS-North and collected DGM data in Transect Area “B” (100% complete) and began DGM data collection in Transect Area “A” (10% complete).
  - The UXOQCS and MMRP Program Safety Mgr. ceased DGM operations in Transect Area “A” until further notice. This decision was based on the presence of heavy brush (acacia, agave, and cactus) which present a significant trip/puncture hazard to GEO personnel while carrying a litter-mounted EM-61 magnetometer. Other potential methods of collecting additional data in this area will be assessed by the project team.
- Geo Team 2 completed daily EM-61 QC checks at IVS-North and collected DGM data in Transect Area “C” (33% complete).
- UXO teams completed visual surveys of 33 small parcels in the MRS and conducted a successful reconnaissance discovering an access route into the southeastern elliptical parcel.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 006

**DATE:** 05 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY
NONE		NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- Intrusive Investigation:
  - In accordance with WP Table 4-1, UXOQCS and GEOQCS seeded Transect Area "D" today.
  - Seed ID, depth, orientation, photographs, and GPS coordinates were recorded into the QC Seed Log.
- Visual Survey:
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - In accordance with WP Table 4-1, GIS Mgr. verified daily GPS/PDA field data was successfully downloaded and transferred for 2/4/2013. Daily visual survey progress map was produced by GIS Mgr.
- Data Management
  - UXOQCS reviewed data base entries for 2/4/2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 2/4/2013 was backed up and stored properly.

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- Geo Teams 1 & 2 completed daily EM-61 QC checks at IVS-North and collected DGM data in Transect Area “C” (90% complete).
- UXO teams completed visual surveys of 31 small parcels in the MRS and mapped the accessible portion of the southeastern elliptical parcel. Visual survey of the accessible area by UXO personnel is scheduled for 2/6/2013.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)





## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 007

**DATE:** 06 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
		None
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
		None
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY
NONE		NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- Visual Survey:
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - In accordance with WP Table 4-1, GIS Mgr. verified daily GPS/PDA field data was successfully downloaded and transferred for 2/5/2013. Daily visual survey progress map was produced by GIS Mgr.
- Data Management
  - UXOQCS reviewed data base entries for 2/5/2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 2/5/2013 was backed up and stored properly.
- Geo Team 1 completed daily EM-61 QC checks at IVS-North and completed DGM data in Transect Area "C" and began DGM data collection in Transect Area "D".
- Geo Team 2 completed daily EM-61 QC checks at IVS-North and began DGM data collection in Transect Area "D".
  - DGM data collection is 50% complete in Transect Area "D" (by both Geo Teams) and is expected to be completed on 2/7/2013.

Continued next page

- UXO teams completed visual surveys of the accessible transects in parcel areas 16314, 401393, 200909, and 200255, which are located in the southeastern elliptical parcel. No MEC or MD was reported.
- Received Rothenbuhler Radio Firing Device on 1/31/2013.
- Schonstedt S/N 282050 was reported inoperative due to potentially loose sensors and was taken out of service for repair.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)





## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 008

**DATE:** 07 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
		None
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
		None
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY
NONE		NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- Visual Survey:
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - In accordance with WP Table 4-1, GIS Mgr. verified daily GPS/PDA field data was successfully downloaded and transferred for 2/6/2013. Daily visual survey progress map was produced by GIS Mgr.
- Data Management
  - UXOQCS reviewed data base entries for 2/6/2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 2/6/2013 was backed up and stored properly.
- Geo Team 1 and Geo Team 2 completed daily EM-61 QC checks at IVS-North and completed DGM data collection in Transect Area "D" today.
- UXO teams completed visual surveys of the all the attainable/accessible parcels located in the MRS. No MEC was reported today.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 009

**DATE:** 08 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY
NONE		NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- IVS Establishment (IVS-South):
  - The location for IVS-South was checked and verified to ensure no surface or sub-surface anomalies were present which would cause interference.
  - Geo Teams 1 & 2 completed daily EM-61 QC checks at IVS-South using both litter mounted EM-61 magnetometers.
  - In accordance with WP Table 4-1, GEOQCS reviewed repeat data for IVS-South and verified amplitude and positional accuracy are within acceptance criteria.
- Intrusive Investigation:
  - In accordance with WP Table 4-1, UXOQCS and UXO assistant seeded Transect Areas F, G, H, I, and L today.
  - Seed ID, depth, orientation, and GPS coordinates were recorded into the QC Seed Log.
- Data Management:
  - UXOQCS reviewed data base entries for 2/7/2013 with no discrepancies noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 2/7/2013 was backed up and stored properly.
- Visual Survey:
  - In accordance with WP Table 4-1, GIS Mgr. verified daily GPS/PDA field data was successfully downloaded and transferred for 2/7/2013. Daily visual survey progress map was produced by GIS Mgr.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 010

**DATE:** 11 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		<b>SPECIFIC INSPECTIONS PERFORMED</b>
		None
Follow-Up		<b>SPECIFIC INSPECTIONS PERFORMED</b>
		None

**NON-COMPLIANT ITEMS IDENTIFIED TODAY**

NONE

**NON-COMPLIANT ITEMS CORRECTED TODAY**

NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- Geo Team 1 performed EM-61 QC checks at IVS-South and completed DGM data in Transect Areas F and L today.
- Geo Team 2 performed EM-61 QC checks at IVS-South and completed DGM data collection in Transect Area G and I today

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 011

**DATE:** 12 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		<b>SPECIFIC INSPECTIONS PERFORMED</b>
		None
Follow-Up		<b>SPECIFIC INSPECTIONS PERFORMED</b>
		None

NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY	NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE	NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- Intrusive Investigation:
  - In accordance with WP Table 4-1, Transect Areas E, J, and K were seeded today.
  - Seed ID, depth, orientation, photos, and GPS coordinates were recorded into the QC Seed Log.
- Vegetation Removal:
  - UXO personnel performed limited brush trimming in Transect Area A today using hand operated pruners. The brush trimming is being conducted in order to facilitate safe DGM data collection in this area. Operations were observed by UXOSO/UXOQCS and noted to be conducted safely.
- Geo Team 1 performed EM61 QC checks at IVS-South and began DGM data collection in Transect Area J (60% complete).
- Geo Team 2 performed EM61 QC checks at IVS-South and began DGM data collection in Transect Area K (70% complete).
- Reacquisition Team reacquired and flagged target anomaly locations in Transect Area B in preparation for intrusive investigation.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)





## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 012

**DATE:** 13 Feb 2013

PHASE		LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field: Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.		
Initial			SPECIFIC INSPECTIONS PERFORMED
			None
Follow-Up			SPECIFIC INSPECTIONS PERFORMED
			None
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY	
NONE		NONE	

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- Vegetation Removal:
  - UXO personnel continued limited brush trimming in Transect Area A today using hand pruners and gas-powered brush trimmers. The brush trimming is being conducted in order to facilitate safe DGM data collection in this area. Operations were observed by UXOSO/UXOQCS and noted to be conducted safely. Photos attached on next page.
- Geo Team 1 performed EM61 QC checks at IVS-South and completed DGM data collection in Transect Areas J and H.
- Geo Team 2 performed EM61 QC checks at IVS-South and completed DGM data collection in Transect Area K and began data collection in Area E (70% complete).
- Reacquisition Team began reacquisition and flagging of target anomaly locations in Transect Area C in preparation for intrusive investigation.
  - UXOQCS observed reacquisition procedures and MEC avoidance protocol. No discrepancies were noted.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



Above: Transect Area A prior to limited brush trimming/removal.

Right: About the same view of Transect Area A following limited brush trimming/removal. Hand operated pruners are in foreground. This was accomplished using a small locally purchased brush cutter with a steel cutting head.



Above: The cut agave (green plants) tips do not pose as much of a puncture hazard now. The brush on either side of the path may be acacia (?) and is covered in sharp thorns.



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 013

**DATE:** 14 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
		None
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
		None
NON-COMPLIANT ITEMS IDENTIFIED TODAY	NON-COMPLIANT ITEMS CORRECTED TODAY	
NONE	NONE	

**Additional Remarks:**

- MEC: A 4.2" mortar (fuzed/fired) was found by Reacquisition Team while flagging anomalies in Transect Area B on 2/13/2013. SUXOS and UXOSO/UXOQCS were directed to conduct a reconnaissance of the projectile to verify/identify it.
  - Due to rust, the "M" model designation was not determined. A faint, painted yellow 4" band was found on the projectile body.
  - The absence of a fuze adapter in the projectile nose was confirmed. Photos attached.
- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval. MEC avoidance protocol remains in effect for all site personnel.
- Vegetation Removal:
  - UXO personnel continued limited brush trimming in Transect Area A today using hand pruners and gas-powered brush trimmers. The brush trimming is being conducted in order to facilitate safe DGM data collection in this area. Operations were observed by UXOSO/UXOQCS and noted to be conducted safely.
- Geo Teams 1 and 2 performed EM-61 QC checks at IVS-North and completed DGM data collection in Transect Areas E.
- Reacquisition Team continued flagging target anomaly locations in Transect Area C in preparation for intrusive investigation.
  - UXOQCS observed reacquisition procedures and MEC avoidance protocol. No discrepancies were noted.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 014

**DATE:** 15 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
		None
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
		None
NON-COMPLIANT ITEMS IDENTIFIED TODAY	NON-COMPLIANT ITEMS CORRECTED TODAY	
NONE	NONE	

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval. MEC avoidance protocol remains in effect for all site personnel.
- No DGM operations were conducted today.
- Vegetation Removal:
  - UXO personnel continued limited brush trimming in Transect Area A today using hand pruners and gas-powered brush trimmers. The brush trimming is being conducted in order to facilitate safe DGM data collection in this area. Operations were observed by UXOSO/UXOQCS and noted to be conducted safely.
- Reacquisition Team began flagging target anomaly locations in Transect Area D in preparation for intrusive investigation.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 015

**DATE:** 19 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
		None
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
		None

**NON-COMPLIANT ITEMS IDENTIFIED TODAY**

NONE

**NON-COMPLIANT ITEMS CORRECTED TODAY**

NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- Visual Survey:
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXO personnel began visual survey of remaining parcel today (60% complete).
- Geo Team 1 completed daily EM61 QC checks at IVS-North and began DGM data collection in Transect Area A today (35% complete).
  - UXOQCS/UXOSO observed DGM data collection in Transect Area A.
- Reacquisition Team continued flagging target anomaly locations in Transect Area D in preparation for intrusive investigation (85% complete)
- U. S. Army EOD Team from Ft Bliss were on site today and safely destroyed a 4.2" HE mortar in Transect Area B which was found and reported last week while flagging target anomalies (anomaly reacquisition). UXOQCS will inspect/verify disposal site on 2/20/2013.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 016

**DATE:** 20 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	The following MEC-related definable features of work remain in the preparatory phase as they have yet to initiate these operations in the field; Intrusive Investigation, MPPEH Inspection, and MEC Disposal Operations.	
Initial		SPECIFIC INSPECTIONS PERFORMED
		None
Follow-Up		SPECIFIC INSPECTIONS PERFORMED
		None
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY
NONE		NONE

**Additional Remarks:**

- Mobilization:
  - Remedial Investigation Work Plan awaiting final approval.
- UXOSO/UXOQCS and GEOQCS verified BIP location in Transect Area B (close to Target #20).
  - Verified complete destruction of the 4.2" mortar, which was found there on 2/13 and destroyed in place by Ft Bliss EOD personnel yesterday, 2/19/2013.
- Visual Survey:
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXO personnel completed visual survey of the remaining parcel today.
- Geo Team 1 completed daily EM61 QC checks at IVS-North and completed DGM data collection in Transect Area A.
  - UXOQCS/UXOSO observed DGM data collection in Transect Area A. All PPE and applicable procedures were followed. The limited brush/vegetation removal enabled safe data collection.
- Reacquisition Team completed flagging target anomaly locations in Transect Area D in preparation for intrusive investigation.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 017

**DATE:** 21 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial	<b>Intrusive Investigation:</b> UXO Teams 1 and 2 conducted and completed intrusive investigation in Transect Area B today. Intrusive operations began in Transect Area C. See remarks below. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process began concurrently with intrusive investigation operations today. See remarks below.	<b>SPECIFIC INSPECTIONS PERFORMED</b>
		- Initial Phase Inspection for Intrusive Investigation. See remarks below. - Initial Phase Inspection for MPPEH Inspection and Processing. See remarks below.
Follow-Up		<b>SPECIFIC INSPECTIONS PERFORMED</b>
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Mobilization:**
  - Received USACE Memorandum dated 2/20/2013 referencing DDESB Memorandum dated 2/12/2013, which approves the Explosive Site Plan for Former Maneuver Area A Ft Bliss, El Paso, TX.
  - With this approval, intrusive investigation began today in Transect Area B and Transect Area C.
- **Visual Survey:**
  - In accordance with WP Table 4-1, GIS Mgr. verified daily GPS/PDA field data was successfully downloaded and transferred for 19-20 Feb 2013. Daily visual survey progress maps were produced by GIS Mgr.
- **Data Management:**
  - UXOQCS reviewed data base entries for 19-20 Feb 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 19-20 Feb 2013 was backed up and stored properly.
- **Intrusive Investigation:** Initial Phase Inspection was completed today for UXO Teams 1 & 2. All equipment required was onsite, personnel were in the appropriate PPE, and all personnel understood their roles and responsibilities prior to conducting this task. All operations were conducted in accordance with the WP and were in compliance with approved plans.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - GEOQCS and UXOQCS observed EM61 (wheel-mode) function checks at IVS-North for both UXO Teams. GEOQCS conducted training/briefing on reacquisition procedures and techniques using the EM-61 in the wheel-mode.
  - UXOQCS observed intrusive investigation procedures for UXO Team 1 and UXO Team 2 being performed in



Transect Area B. Teams separation distance (TSD) was briefed and observed. Collectively they completed intrusive investigation of 24 selected target anomalies in Transect Area B and began intrusive investigation in Transect Area C (5% complete).

- All procedures were performed safely and in accordance with WP requirements.

- **Intrusive Investigation: Transect Area B QC seeds**

- In accordance with WP table 4-1, UXOQCS verified the following Transect Area B QC seeds were successfully recovered during intrusive investigation today:

<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>
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010	B	B12	1
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008	B	B24	2
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- All QC seeds located in Transect Area B were identified, selected as intrusive target anomalies, and successfully recovered by Operations during intrusive investigation.

- **QC Inspection of Intrusive Investigation in Transect Area B:**

- A total of 24 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area B.
- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area B were investigated and resolved by Operations. The following Transect Area B target anomaly locations were inspected by the UXOQCS: B8, B16, B17, B19, and B22.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **MPPEH Inspection and Processing:** Initial Phase Inspection was completed today. All equipment required was onsite, personnel were in the appropriate PPE, and all personnel understood their roles and responsibilities prior to conducting this task. All operations were conducted in accordance with the WP and were in compliance with approved plans.

- SUXOS and UXOQCS re-inspected approximately 30 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
- UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
- UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 018

**DATE:** 22 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO Teams 1 and 2 continued intrusive investigation in Transect Area C today. See remarks below. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Data Management:**
  - UXOQCS reviewed data base entries for 21 Feb 2013. One (1) minor omission was noted for correction.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 21 Feb 2013 was backed up and stored properly.
- **Intrusive Investigation:** Follow-up Phase Inspection was completed today for UXO Teams 1 & 2. No discrepancies or deficiencies were noted.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed EM61 (wheel-mode) function checks at IVS-North for both UXO Teams.
  - UXOQCS observed intrusive investigation procedures for UXO Team 1 and UXO Team 2 being performed in Transect Area C. Teams separation distance (TSD) was briefed and observed. No discrepancies were noted.
  - MEC: A fused, fired M2 4.2" mortar (screening smoke) was excavated at Transect Area C target C30. UXOQCS observed EM61 reacquisition, detection, and excavation of the mortar. All procedures were performed safely and in accordance with WP requirements. The mortar was left in place. Appropriate security measures are in effect until disposal operations are complete.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following Transect Area C QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team
013	C	C140	2

- **MPPEH Inspection and Processing:** Follow-up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - SUXOS and UXOQCS re-inspected approximately 80 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
- Geo Team 1 completed daily EM61 QC checks at IVS-North and re-collected data in Transect Area A (data gaps) and Transect Area D (added transects).

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 019

**DATE:** 25 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO Teams 1 and 2 continued intrusive investigation in Transect Area C today. See remarks below. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

### Additional Remarks:

- **Data Management:**
  - UXOQCS reviewed data base entries for 22 Feb 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 22 Feb 2013 was backed up and stored properly.
- **Intrusive Investigation:** Follow-up Phase Inspection was performed today for UXO Teams 1 & 2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO Team 1 and UXO Team 2 being performed in Transect Area C. Teams separation distance (TSD) was briefed and observed. All procedures were performed safely and in accordance with RI WP requirements.
  - Observed detection, excavation and reporting of QC seed #019 at target C43 by UXO Team 1.
- **MEC:** (1) fuzed, fired M2 4.2" mortar (screening smoke) found and reported on 2/22/2013 at Transect Area C target C30 remains left in place pending MEC disposal operations. Appropriate security measures are in effect until disposal operations are complete.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following Transect Area C QC seeds were successfully recovered during intrusive investigation today:

<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>
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006	C	C56	1
019	C	C43	1
012	C	C85	1
004	C	C199	2
009	C	C63	1
020	C	C95	1

- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS re-inspected approximately 100 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 020

**DATE:** 26 Feb 2013

Phase	List Definable Features of Work, Location, and Inspection Comments	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		Specific Inspections Performed
Follow-Up	<b>Intrusive Investigation:</b> UXO Teams 1 and 2 completed intrusive investigation in Transect Area C and began Transect Area D today. See remarks below. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	Specific Inspections Performed
		- Follow Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
Non-Compliant Items <u>Identified</u> Today		Non-Compliant Items <u>Corrected</u> Today
NONE		NONE

**Additional Remarks:**

- **Data Management:**
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 25 Feb 2013 was backed up and stored properly.
- **Intrusive Investigation:** Follow Up Phase Inspection was performed today for UXO Teams 1 & 2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed EM-61 checks at IVS-North.
  - UXOQCS observed intrusive investigation procedures for UXO Team 1 and UXO Team 2 being performed in Transect Area C and Transect Area D. Teams separation distance (TSD) was briefed and observed. All procedures were performed safely and in accordance with RI/WP requirements.
  - Observed reacquisition, detection, excavation, and reporting of QC seed #017 at Transect Area C target #C157 by UXO Team 2.
- **QC Inspection of Intrusive Investigation in Transect Area C:**
  - A total of 243 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area C.
  - In accordance with WP Table 4-1, UXOQCS verified the following 14 (of a 25 minimum targets) target anomalies in Transect Area C were investigated and resolved by Operations. The following Transect Area B target anomaly locations were inspected by the UXOQCS: C86, C88, C106, C107, C108, C109, C110, C111, C157, C158, C203, C228, C230, and C236.

- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **Intrusive Investigation: Transect Area C QC seeds**

- In accordance with WP table 4-1, UXOQCS verified the following Transect Area C QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team
017	C	C157	2
016	C	C228	2
021	D	D14	2
007	D	D1	2

- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - **MEC:** UXOQCS verified MEC found today in Transect Area D at target D181.
    - o UXO Team 1 detected and excavated (1) fused/fired M2 mortar (screening smoke) at Transect Area D target #181. The mortar was photographed, GPS location recorded and left in place. Appropriate security measures are in effect until disposal operations are complete.
  - SUXOS and UXOQCS re-inspected approximately 156 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)





## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 021

**DATE:** 27 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO Teams 1 and 2 continued intrusive investigation in Transect Area D today. See remarks below. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- UXOQCS R. Burrington is off site due to illness.
  - UXO T3 K. Montgomery is acting UXOSO/UXOQCS.
- **Data Management:**
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 26 Feb 2013 was backed up and stored properly.
- UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
- UXOQCS observed EM61 checks at IVS-North.
- URS PM arrived on site.
- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for UXO Teams 1 & 2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP table 4-1, UXOQCS verified the following Transect Area D QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
#018	D	D031	2	#023	D	D069	2
#025	D	D179	2	#015	D	D102	2

- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS re-inspected approximately 121 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 022

**DATE:** 28 Feb 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO Team 2 began intrusive investigation in Transect Area F today. See remarks below. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- UXOQCS R. Burrington is off site due to illness.
  - UXO T3 K. Montgomery is acting UXOSO/UXOQCS.
- USACE OESS arrived on site today.
- UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
- UXOQCS observed EM-61 checks at IVS-South.
- Reacquisition Team reacquired and flagged targets in Transect Areas E, F, G, H, I, and L today.
- **Intrusive Investigation:** Follow Up Phase Inspection was performed today for UXO Teams 2. UXOQCS observed operations being performed in Transect Area F. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP table 4-1, UXOQCS verified the following Transect Area D QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
#031	F	F080	2	#034	F	F146	2
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully

identified, examined, inspected, and categorized. No discrepancies were noted.

- UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
- SUXOS and UXOQCS re-inspected approximately 77 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 023

**DATE:** 01 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO Teams 1 and 2 continued intrusive investigation in Transect Area D today. See remarks below. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- UXOQCS R. Burrington is off site due to illness.
  - UXO T3 K. Montgomery is acting UXOSO/UXOQCS.
- UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
- UXOQCS observed EM61 checks at IVS-North.
- URS PM is on site observing operations.
- **Intrusive Investigation:** Follow Up Phase Inspection was performed today for UXO Teams 1 & 2. UXOQCS observed operations being performed in Transect Area D. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following Transect Area D QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
#026	D	D311	1	#024	D	D293	1
#014	D	D136	1	#022	D	D184	1
#027	D	D238	1				
- No MEC or MD was reported today.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 034

**DATE:** 18 Mar 2013

Phase	List Definable Features of Work, Location, and Inspection Comments	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		Specific Inspections Performed
Follow-Up	<b>Intrusive Investigation:</b> UXO TM2 completed intrusive investigation in F1, G1, J1, J2, and L1. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations and detector aided surface clearance operations today. See remarks below.	Specific Inspections Performed
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
Non-Compliant Items <u>Identified</u> Today		Non-Compliant Items <u>Corrected</u> Today
NONE		NONE

**Additional Remarks:**

- **Grid Delineation:** A total of five additional grid locations were established in Transect Area C (Grids C4, C5, C6, C7, and C8) based on intrusive investigation results which indicate a higher potential for MEC in these areas. In accordance with RI/WP, these five 100'x100' grids will be subjected to DGM data collection, data analysis, and further intrusive investigation of selected sub-surface anomalies.
  - In accordance with WP Table 4-1, UXOQCS seeded these five grids in preparation for DGM data collection.
- **Surface Clearance of Grids:** Operations completed surface clearance of Transect Area C grids C4, C5, C6, C7, and C8 today prior to DGM data collection. No MEC was reported during the surface clearance.
  - In accordance with WP Table 4-1, prior to DGM collection UXOQCS inspected grids C4 and C7 following completion of surface clearance operations. No discrepancies were noted.
- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for UXO TM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO TM2 being performed in Transect Area J Grids J1 and J2.
  - Observed detection, excavation and recovery of QC seeds #108 and #109.
  - All procedures were performed safely and in accordance with RI/WP requirements.
  - No MEC was reported today.
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.

- UXOQCS observed and monitored MPPEH inspection process during intrusive investigation procedures in Grids J1 and J2 and during surface clearance operations in Grids C4 and C7. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
- UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
- SUXOS and UXOQCS inspected approximately 74.25 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
- **QC Inspection of Intrusive Investigation in Transect Area G / Grid G1 Anomalies:**
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area G / Grid G1 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid G1 (A total of 7 targets were identified): G1-001, G1-002, G1-003, G1-004, G1-005, G1-006, and G1-007. No discrepancies were noted.
  - UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.
- **QC Inspection of Intrusive Investigation in Transect Area J / Grid J1 and Grid J2 Anomalies:**
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area J Grids J1 and J2 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS:
    - Grid J1 (A total of 4 targets were identified): J1-001, J1-002, J1-003, and J1-004. No discrepancies were noted.
    - Grid J2 (A total of 3 targets were identified): J2-001, J2-002, and J2-003. No discrepancies were noted.
  - UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.
- **Intrusive Investigation: Transect Area A QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>	<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>
#108	J	J1-003	2	#109	J	J2-001	2
#110	F	F1-005	2	#112	L	L1-004	2

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)





## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 035

**DATE:** 19 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO TM1 completed intrusive investigations in Grid A1, Grid D6, and Transect Area C. UXO TM2 completed intrusive investigation in Grids D7 and D9.  <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for UXO TM1 and TM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO TM1 being performed in Grid A1 and D6.
  - UXOQCS observed intrusive investigation procedures for UXO TM2 being performed in D7 and D9.
  - Observed detection, excavation, and recovery of QC seeds #115, #124, and #122.
  - All procedures were performed safely and in accordance with RI/WP requirements.
  - No MEC was reported today.
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process during intrusive investigation procedures in Grids A1, D7, and D9. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS inspected approximately 35 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
- **QC Inspection of Intrusive Investigation in Transect Area A / Grid A1 Anomalies:**
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area A / Grid A1 were investigated and resolved by Operations. The following grid anomaly locations were

inspected today by the UXOQCS: Grid A1 (A total of 1 target was identified): A1-001. No discrepancies were noted.

- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area D / Grid D6 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area D Grid D6 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid D6 (A total of 29 targets were identified): D6-009, D6-010, D6-012, D6-013, D6-014, D6-022, D6-024, D6-025, D6-026, and D6-027. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area D / Grid D7 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area D Grid D7 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid D7 (A total of 13 targets were identified): D7-001, D7-002, D7-003, D7-004, D7-005, and D7-008. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area D / Grid D9 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area D Grid D9 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid D9 (A total of 21 targets were identified): D9-001, D9-002, D9-005, D9-008, D9-011, D9-012, D9-013, D9-017, D9-018, D9-019, and D9-020. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area F / Grid F1 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area F / Grid F1 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid F1 (A total of 9 targets were identified): F1-001, F1-002, F1-003, F1-004, F1-005, F1-006, F1-007, F1-008, and F1-009. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area L / Grid L1 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area L / Grid L1 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid L1 (A total of 7 targets were identified): L1-001, L1-002, L1-003, L1-004, L1-005, L1-006, and L1-007. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **Intrusive Investigation: Transect Area A QC seeds**

- In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
#115	A	A1-001	TM1	#124	D	D9-017	TM2
#120	D	D6-020	TM1	#122	D	D7-001	TM2
#046	C	C-246	TM1	#045	C	C-244	TM1

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 036

**DATE:** 20 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO TM1 and TM2 completed intrusive investigations in Grids C4, C5, C6, C7, and C8 located in Transect Area C.  <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for UXO TM1 and TM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO TM1 being performed in Grids C6 and C7.
  - UXOQCS observed intrusive investigation procedures for UXO TM2 being performed in C5 and C8.
  - **MEC:** (1) M2 4.2" mortar (screening smoke) was excavated at Grid C7 Target #45 located in transect Area C. The fuzed and fired mortar was left in place for disposal operations.
  - All procedures were performed safely and in accordance with RI/WP requirements.
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process during intrusive investigation procedures in Grids C5, C6, C7, and C8. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS inspected approximately 131 ¼ pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
- **QC Inspection of Intrusive Investigation in Transect Area A Anomalies:**
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area A were investigated and resolved by Operations. The following transect anomaly locations were

inspected today by the UXOQCS: #021, #027, #028, #029, #030, and #031. No discrepancies were noted.

- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area C / Grid C4 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area C Grid C4 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid C4 (A total of 53 targets were identified): C4-015, C4-021, C4-025, C4-026, C4-027, C4-031, C4-032, C4-034, C4-035, C4-036, C4-039, C4-041, C4-043, C4-045, and C4-047. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area C / Grid C5 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area C Grid C5 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid C5 (A total of 7 targets were identified): C5-001, C5-002, C5-003, C5-004, C5-005, C5-006, and C5-007. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area C / Grid C6 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area C Grid C6 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid C6 (A total of 36 targets were identified): C6-008, C6-009, C6-010, C6-011, C6-018, C6-019, C6-024, and C6-027. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area C / Grid C7 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area C / Grid C7 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid C7 (A total of 58 targets were identified): C7-035, C7-036, C7-038, C7-040, C7-042, C7-043, C7-051, C7-052, C7-053, C7-055, and C7-056. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area C / Grid C8 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area C / Grid C8 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid C8 (A total of 35 targets were identified): C8-005, C8-010, C8-011, C8-015, C8-018, C8-021, C8-024, C8-027, and C8-028. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **Intrusive Investigation: Transect Area A QC seeds**

- In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
#125	C	C4-014	TM2	#126	C	C5-001	TM2
#127	C	C6-012	TM1	#128	C	C7-014	TM1
#129	C	C8-023	TM1				

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 037

**DATE:** 21 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO TM1 and TM2 completed intrusive investigations in Grids B1, B2, D5, and D8.  <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for TM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO TM2 being performed in Grids B1 and B2.
  - **MEC:** (1) M2 4.2" mortar (screening smoke) was excavated at Grid B2 Target B2-009 located in Transect Area B. The mortar was determined to be acceptable to move by the SUXOS and UXOSO. It was safely consolidated to the mortar location in Grid C7 Target C7-045 (mortar left in place, found 3/20/2013) for disposal.
  - All procedures were performed safely and in accordance with RI/WP requirements.
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process during intrusive investigation procedures in Grids B1 and B2. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS inspected approximately 42 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
- **QC Inspection of Intrusive Investigation in Transect Area B / Grid B1 Anomalies:**
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area B Grid B1 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid B1 (A total of 30 targets were identified): B1-002, B1-004, B1-007, B1-008,

B1-009, B1-011, B1-012, B1-016, B1-022, and B1-029. No discrepancies were noted.

- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area B / Grid B2 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area B Grid B2 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid B2 (A total of 11 targets were identified): B2-002, B2-003, B2-004, and B2-026. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area D / Grid D5 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area D Grid D5 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid D5 (A total of 16 targets were identified): D5-001, D5-006, D5-009, and D5-013. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area D / Grid D8 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area D / Grid D8 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid D8 (A total of 21 targets were identified): D8-004, D8-007, D8-009, D8-010, and D8-012. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **Intrusive Investigation: Transect Area A QC seeds**

- In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>	<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>
#113	B	B2-006	TM2	#114	B	B2-007	TM2
#130	B	B1-025	TM2	#123	D	D5-002	TM1
#121	D	D8-013	TM1				

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)





## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 037

**DATE:** 21 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory		
Initial	MEC Disposal Operations: A total of 4 MEC items were disposed of by detonation today in grids C4 and C7 today. See remarks below	SPECIFIC INSPECTIONS PERFORMED
		Initial Phase Inspection for MEC Disposal Operations. See remarks below.
Follow-Up	Intrusive Investigation: Operations completed intrusive investigation in Grid A2 and L2 today. Intrusive operations have been completed for this project. MPPEH Inspection and Processing: MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY
NONE		NONE

**Additional Remarks:**

- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for TM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - All procedures were performed safely and in accordance with RI/WP requirements.
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - SUXOS and UXOQCS inspected approximately 5 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
  - MDAS shipment: Approximately 1500 pounds of MDAS was shipped off site today for final disposition to Timberline Environmental. The shipment consisted of three (3) sealed 55-gallon drums. Refer to SUXOS Daily site report for drum seal numbers.
- **MEC Disposal Operations:** Completed Initial Phase Inspection for MEC disposal operations today. Observed /attended demolition safety briefing. Excellent briefing for the demolition plan and exclusion security management.
  - Observed demolition shot preparation and setup in Grid C7 for (2) each M2 mortars.
  - Observed demolition shot preparation and setup in Grid C4 for (2) each M2 mortars.
  - No equipment deficiencies or shortages were noted.
  - A final clean up shot was conducted for the remaining donor explosives. No donor explosives remain on site.
- **QC Inspection of Intrusive Investigation in Transect Area A / Grid A2 Anomalies:**
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in



Transect Area A Grid A2 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid A2 (A total of 14 targets were identified): A2-003, A2-004, A2-005, A2-006, A2-007, and A2-009. No discrepancies were noted.

- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area L / Grid L2 Anomalies:**

- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in Transect Area L Grid L2 were investigated and resolved by Operations. The following grid anomaly locations were inspected today by the UXOQCS: Grid L2 (A total of 3 targets were identified): L2-001, L2-002, and L2-003. No discrepancies were noted.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **Intrusive Investigation: Transect Area A QC seeds**

- In accordance with WP table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>	<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>
#116	A	A2-012	TM2	#135	L	L2-002	TM2

- All QC seeds (transect seeds and grid seeds) were identified in the DGM data, selected as targets, and recovered during intrusive investigation.

- **Data Management:**

- UXOQCS and GEOQCS reviewed data base entries for 19-21 Mar 2013. No discrepancies were noted.
- In accordance with WP Table 4-1, GIS Mgr. verified data collected for 19-21 Mar 2013 was backed up and stored properly.

- **Demobilization:** Site demobilization began today following completion of intrusive investigation and MEC disposal operations.

- Gear and rental equipment was prepared for shipment and delivered to Fedex.
- Rental trucks were returned to Enterprise.
- PODS storage locker was picked up by vendor.
- Portable toilets were picked up by vendor.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)

# DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 029

**DATE:** 11 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> No intrusive operations were performed today. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with surface clearance operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

## Additional Remarks:

- Grid Delineation:** A total of five grid locations were established in Transect Areas F (Grid F1), G (Grid G1), J (Grids J1 and J2), and L (Grid L1) based on intrusive investigation results which indicate a higher potential for MEC in these areas. In accordance with RI/WP, these five 100'x100' grids will be subjected to DGM data collection, data analysis, and further intrusive investigation of selected sub-surface anomalies.
  - In accordance with WP Table 4-1, UXOQCS and assistant placed corner stakes and seeded these five grids in preparation for 100% DGM data collection.
- Surface Clearance of Grids:** In preparation for DGM data collection, Operations completed surface clearance of the following Transect Area grids: F (Grid F1), G (Grid G1), J (Grids J1 and J2), and L (Grid L1). No MEC was reported during the surface clearance.
  - In accordance with WP Table 4-1, prior to DGM UXOQCS inspected the above grids today following completion of surface clearance operations. No discrepancies were noted.
- Data Management:**
  - UXOQCS and GEOQCS reviewed data base entries for 08 Mar 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 08 Mar 2013 was backed up and stored properly.
- MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS inspected approximately 7 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 030

**DATE:** 12 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> No intrusive operations were performed today. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with surface clearance operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.

NON-COMPLIANT ITEMS IDENTIFIED TODAY	NON-COMPLIANT ITEMS CORRECTED TODAY
NONE	NONE

**Additional Remarks:**

- **Surface Clearance of Grids:** In preparation for DGM data collection, Operations completed surface clearance of the following Transect Area grids: B (Grids B1 and B2). No MEC was reported during the surface clearance.
  - In accordance with WP Table 4-1, prior to DGM UXOQCS inspected the above grids today following completion of surface clearance operations. No discrepancies were noted.
- **QC Inspection of Intrusive Investigation in Transect Area Grids:**
  - The following transect area grids were intrusively investigated and completed by Operations today: Transect Area D (Grids D1, D2, D3, and D4).
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in the above in Transect Area grids were investigated and resolved by Operations. The following Transect Area D grid anomaly locations were inspected today by the UXOQCS:
    - Grid D1 (A total of 4 targets identified): D1-003, D1-004. No discrepancies were noted.
    - Grid D2 (A total of 7 targets were identified): D2-002, D2-003, D2-004, and D2-005. No discrepancies were noted.
    - Grid D3 (A total of 41 targets were identified): D3-001, D3-012, D3-013, D3-015, D3-017, D3-018, and D3-019. No discrepancies were noted.
    - Grid D4 (A total of 13 targets were identified): D4-001, D4-002, D4-003, D4-004, and D4-005. No discrepancies were noted.
  - UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.
- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for UXO TM1 and UXO TM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.

- UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
- UXOQCS observed intrusive investigation procedures for UXO TM1 and UXO TM2 being performed in Transect Area D.
- All procedures were performed safely and in accordance with RI/WP requirements.
- No MEC was reported today.
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS inspected approximately 50 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>	<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>
#103	Grid D1	D1-003	2	#101	Grid D2	D2-002	1
#104	Grid D4	D4-001	2	#102	Grid D3	D3-020	1

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 031

**DATE:** 13 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	Intrusive Investigation: UXO TM1 and TM2 completed intrusive investigation in Transect Area C Grids C1, C2, and C3.  MPPEH Inspection and Processing: MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS IDENTIFIED TODAY		NON-COMPLIANT ITEMS CORRECTED TODAY
NONE		NONE

**Additional Remarks:**

- **Data Management:**
  - UXOQCS and GEOQCS reviewed data base entries for 12 Mar 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 12 Mar 2013 was backed up and stored properly.
- **Grid Delineation:** A total of two grid locations were established in Transect Area A (Grids A1 and A2) based on intrusive investigation results which indicate a higher potential for MEC in these areas. In accordance with RI/WP, these two 100'x100' grids will be subjected to DGM data collection, data analysis, and further intrusive investigation of selected sub-surface anomalies.
  - In accordance with WP Table 4-1, GEO placed corner stakes and UXOQCS seeded these grids in preparation for DGM data collection.
- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for UXO TM1 and UXOTM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO TM1 being performed in Transect Area C Grid C2.
  - UXOQCS observed intrusive investigation procedures for UXO TM2 being performed in Transect Area C Grids C1 and C3.
  - All procedures were performed safely and in accordance with RI/WP requirements. No MEC was reported today.
- **QC Inspection of Intrusive Investigation in Transect Area Grids:**
  - The following transect area grids were intrusively investigated and completed by Operations today:

- Transect Area C (Grids C1, C2, and C3).
- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies identified in the above in Transect Area grids were investigated and resolved by Operations. The following Transect Area C Grid anomaly locations were inspected today by the UXOQCS:
  - Grid C1 (A total of 29 targets identified): C1-008, C1-012, C1-014, C1-018, C1-020, C1-022, C1-027, C1-028, and C1-029.
  - Grid C2 (A total of 52 targets were identified): C2-012, C2-015, C2-023, C2-027, C2-029, C2-033, C2-036, C2-038, C2-039, C2-040, and C2-044.
  - Grid C3 (A total of 28 targets were identified): C3-004, C3-007, C3-010, C3-011, C3-013, C3-017, and C3-021.
- No discrepancies were noted. UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS inspected approximately 110 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>	<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>
#107	C Grid C1	C1-021	TM2	#105	C Grid C3	C3-006	TM1
#105	C Grid C2	C2-026	TM1				

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 032

**DATE:** 14 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> No intrusive operations were performed today. <b>MPPEH Inspection and Processing:</b> No MPPEH was recovered or inspected today.	SPECIFIC INSPECTIONS PERFORMED
		None
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

### Additional Remarks:

- **Data Management:**
  - UXOQCS and GEOQCS reviewed data base entries for 13 Mar 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 13 Mar 2013 was backed up and stored properly.
- **QC Inspection of Intrusive Investigation in Transect Area C:**
  - A total of 243 target anomalies have been selected to date and have been intrusively investigated by Operations in Transect Area C.
  - In accordance with WP Table 4-1, UXOQCS verified the following target anomalies in Transect Area C were investigated and resolved by Operations. The following Transect Area C target anomaly locations were inspected by the UXOQCS: C-175, C-176, C-177, C-178, C-179, C-186, C-187, C-192, C-193, C-195, C-196, C-208, C-209, C-210, C-213, C-214, C-215, C-216, C-217, and C-226.
  - A total of 14 targets were previously inspected and reported on 2/26/2013.
  - UXOQCS final inspection results meet WP Table 4-1 acceptance criteria. No discrepancies were noted.
- **QC Inspection of Intrusive Investigation in Transect Area D:**
  - A total of 351 target anomalies have been selected to date and have been intrusively investigated by Operations in Transect Area D.
  - In accordance with WP Table 4-1, UXOQCS verified the following target anomalies in Transect Area D were investigated and resolved by Operations. The following Transect Area D target anomaly locations were inspected by the UXOQCS: D-003, D-004, D-005, D-006, D-007, D-008, D-112, D-114, D-116, D-117, D-118, D-132, D-134, D-146, D-147, D-148, D-150, D-151, D-152, D-153, D-156, D-162, D-164, D-165, D-173, D-175, D-176, D-177, D-178, D-180, D-223, D-232, D-319, D-322, D-324, D-325, D-327, D-329, D-330, D-331, D-332, D-333, D-334, D-335, D-336, D-337, D-338, D-341, and D-345.



<ul style="list-style-type: none"><li>- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria. No discrepancies were noted.</li><li>• No intrusive operations were conducted today. No MD/MPPEH inspections were conducted. MEC avoidance protocol was in effect while performing site restoration and pin-flag/stake removal.</li></ul>	
On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.	(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 033

**DATE:** 15 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> No intrusive operations were performed today. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with surface clearance operations in Grids D5, D6, D7, D8, and D9. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

### Additional Remarks:

- **Grid Delineation:** A total of five additional grid locations were established in Transect Area D (Grids D5, D6, D7, D8, and D9) based on intrusive investigation results which indicate a higher potential for MEC in these areas. In accordance with RI/WP, these five 100'x100' grids will be subjected to DGM data collection, data analysis, and further intrusive investigation of selected sub-surface anomalies.
  - In accordance with WP Table 4-1, UXOQCS seeded these five grids in preparation for DGM data collection.
- **Surface Clearance of Grids:** Operations completed surface clearance of Transect Area D Grids D5, D6, D7, D8, and D9 today prior to DGM data collection. No MEC was reported during the surface clearance.
  - In accordance with WP Table 4-1, prior to DGM collection UXOQCS inspected Grids D5, D6, D7, D8, and D9 following completion of surface clearance operations. No discrepancies were noted.
- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process during surface clearance operations in Grids D5, D6, D7, D8, and D9. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS inspected approximately 33 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 024

**DATE:** 04 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO Teams 1 and 2 continued intrusive investigation in Transect Area D today. See remarks below.  <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Data Management:**
  - UXOQCS reviewed data base entries for 01 Mar 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 01 Mar 2013 was backed up and stored properly.
- **Intrusive Investigation:** Follow-up Phase Inspection was performed today for UXO Teams 1 & 2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO Team 2 being performed in Transect Area F. UXOQCS observed intrusive investigation procedures for UXO Team 1 being performed in Transect Areas E and H. All procedures were performed safely and in accordance with RI/WP requirements.
  - Observed detection, excavation and reporting of QC seeds #002 and #042 in Transect Area E and QC seed #037 in Transect Area H by UXO Team 1.
  - No MEC was reported today.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
#002	E	E001	1	#042	E	E001	1
#037	H	H002	1				

- **QC Inspection of Intrusive Investigation in Transect Area E:**
  - A total of 11 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area E.
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area E were investigated and resolved by Operations. The following Transect Area E target anomaly locations were inspected by the UXOQCS: E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, and E11.
  - UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.
- **QC Inspection of Intrusive Investigation in Transect Area F:**
  - A total of 210 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area F.
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area F were investigated and resolved by Operations. The following Transect Area F target anomaly locations were inspected by the UXOQCS: F63, F64, F66, F67, F70, F71, F73, F74, F75, F77, F78, F79, F82, and F87.
  - UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.
- **QC Inspection of Intrusive Investigation in Transect Area H:**
  - A total of 6 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area H.
  - In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area H were investigated and resolved by Operations. The following Transect Area H target anomaly locations were inspected by the UXOQCS: H1, H2, H3, H4, H5, and H6.
  - UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.
- **MPPEH Inspection and Processing:** Follow-up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS re-inspected approximately 2 ¼ pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 025

**DATE:** 05 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
	Initial	SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO TM1 completed intrusive investigation in Transect Area L and began intrusive investigation in transect Area J. UXO TM 2 completed intrusive investigation in Transect Areas F, G, and I. See remarks below.  <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

### Additional Remarks:

- **Data Management:**
  - UXOQCS reviewed data base entries for 04 Mar 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 04 Mar 2013 was backed up and stored properly.
- **Intrusive Investigation:** Follow-up Phase Inspection was performed today for UXO Teams 1 & 2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO Team 2 being performed in Transect Areas F, G, and I.
  - UXOQCS observed intrusive investigation procedures for UXO Team 1 being performed in Transect Area L. All procedures were performed safely and in accordance with RI/WP requirements.
  - Observed detection, excavation and reporting of QC seeds #035 (Tgt. #G5) and #032 (Tgt. #I14) by UXO TM2.
  - No MEC was reported today.
- **Intrusive Investigation: Transect Area C QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
035	G	G5	TM2	032	L	L2	TM1
040	L	L8	TM1	039	L	L20	TM1
032	I	I14	TM2				

- **QC Inspection of Intrusive Investigation in Transect Area F:**

- A total of 210 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area F.
- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area F were investigated and resolved by Operations. The following Transect Area F target anomaly locations were inspected today by the UXOQCS: F168, F169, F170, F171, F172, F173, F174, F176, F177, F178, F179, F181, F182, F183, F185, and F187.
- A total of 14 targets were previously inspected and accepted by QC on 04 March 2013.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area G:**

- A total of 7 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area G.
- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area G were investigated and resolved by Operations. The following Transect Area G target anomaly locations were inspected by the UXOQCS: G1, G2, G3, G4, G5, G6, and G7.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area I:**

- A total of 28 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area I.
- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area I were investigated and resolved by Operations. The following Transect Area I target anomaly locations were inspected by the UXOQCS: I8, I9, I11, I12, I13, I14, I16, I17, and I20.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **QC Inspection of Intrusive Investigation in Transect Area L:**

- A total of 25 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area L.
- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area L were investigated and resolved by Operations. The following Transect Area L target anomaly locations were inspected by the UXOQCS: L16, L17, L18, L19, L21, L22, and L23.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **MPPEH Inspection and Processing:** Follow-up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.

- UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
- UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
- SUXOS and UXOQCS inspected approximately 8 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 026

**DATE:** 06 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<p><b>Intrusive Investigation:</b> UXO TM1 assisted Geo TM in Transect Area D, completed intrusive investigation in Transect Area L, and began intrusive investigation in Transect Area J. UXO TM 2 completed intrusive investigation in Transect Areas F, G, and I. See remarks below.</p> <p><b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations today. See remarks below.</p>	<p>SPECIFIC INSPECTIONS PERFORMED</p> <ul style="list-style-type: none"> <li>- Follow-up Phase Inspection for Intrusive Investigation. See remarks below.</li> <li>- Follow-up Phase Inspection for MPPEH Inspection and Processing. See remarks below.</li> </ul>
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Grid Delineation:** A total of four grid locations were established in Transect Area D (grids D1, D2, D3, and D4) based on intrusive investigation results which indicate a higher potential for MEC in these areas. In accordance with RI/WP, these four 100'x100' grids will be subjected to 100% DGM data collection, data analysis, and further intrusive investigation of selected sub-surface anomalies.
  - In accordance with WP Table 4-1, GEOQCS and UXOQCS placed corner stakes and seeded these four grids in preparation for 100% DGM data collection.
- **Surface Clearance of Grids:** UXO TM1 completed surface clearance of Transect Area D grids D1, D2, D3, and D4 today prior to DGM data collection. No MEC was reported during the surface clearance.
  - In accordance with WP Table 4-1, prior to DGM collection UXOQCS inspected grid D3 and D4 following completion of surface clearance operations. No discrepancies were noted.
- **Data Management:**
  - UXOQCS reviewed data base entries for 05 Mar 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 05 Mar 2013 was backed up and stored properly.
- **Intrusive Investigation:** Follow-up Phase Inspection was performed today for UXO TM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.



- UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
- UXOQCS observed intrusive investigation procedures for UXO Team 2 being performed in Transect Areas K and J.
- All procedures were performed safely and in accordance with RI/WP requirements.
- Observed detection, excavation and reporting of QC seed #044 (Tgt. #K37) by UXO TM2.
- No MEC was reported today.

- **Intrusive Investigation: Transect Area C QC seeds**

- In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
043	K	K17	2	044	K	K37	TM2

- **QC Inspection of Intrusive Investigation in Transect Area K:**

- A total of 51 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area K.
- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area K were investigated and resolved by Operations. The following Transect Area K target anomaly locations were inspected today by the UXOQCS: K18, K19, K20, K22, K24, K26, K37, K38, K40, K41, K42, K49, K50, K51, K52, and K53.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **MPPEH Inspection and Processing:** Follow-up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.

- UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
- UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
- SUXOS and UXOQCS inspected approximately 51 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 027

**DATE:** 07 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO TM2 continued intrusive investigation in Transect Area J (99% complete) and continued intrusive investigation in Transect Area D (expansion transects). <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations and detector aided surface clearance operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Grid Delineation:** A total of three grid locations were established in Transect Area C (grids C1, C2, and CD3) based on intrusive investigation results which indicate a higher potential for MEC in these areas. In accordance with RI/WP, these three 100'x100' grids will be subjected to 100% DGM data collection, data analysis, and further intrusive investigation of selected sub-surface anomalies.
  - In accordance with WP Table 4-1, GEOQCS and UXOQCS placed corner stakes and seeded these three grids in preparation for 100% DGM data collection.
- **Surface Clearance of Grids:** UXO TM1 completed surface clearance of Transect Area D grids C1, C2, and C3 today prior to DGM data collection. No MEC was reported during the surface clearance.
  - In accordance with WP Table 4-1, prior to DGM collection UXOQCS and GEOQCS inspected grids C1, C2, and C3 following completion of surface clearance operations. No discrepancies were noted.
  - In accordance with WP Table 4-1, prior to DGM UXOQCS inspected Transect Area D grids D1 and D2 today following completion of surface clearance operations completed on 3/6/2013. No discrepancies were noted.
- **Data Management:**
  - UXOQCS and GEOQCS reviewed data base entries for 06 Mar 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 06 Mar 2013 was backed up and stored properly.
- **Intrusive Investigation:** Follow-up Phase Inspection was performed today for UXO TM2. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.

- UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
- UXOQCS observed intrusive investigation procedures for UXO TM2 being performed in Transect Area J and Transect Area D.
- All procedures were performed safely and in accordance with RI/WP requirements.
- No MEC was reported today.

- **Intrusive Investigation: Transect Area C QC seeds**

- In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>	<u>Seed #</u>	<u>Transect Area</u>	<u>Anomaly</u>	<u>UXO Team</u>
038	J	J56	2	030	J	J43	2
041	J	J29	2				

- **QC Inspection of Intrusive Investigation in Transect Area K:**

- A total of 97 target anomalies were identified and selected for intrusive investigation by Operations in Transect Area J.
- In accordance with WP Table 4-1, UXOQCS verified a minimum of 10% of the total target anomalies in Transect Area J were investigated and resolved by Operations. The following Transect Area J target anomaly locations were inspected today by the UXOQCS: J3, J4, J5, J6, J11, J13, J18, J19, J20, J22, J23, J30, J31, J40, and J62.
- UXOQCS final inspection results meet WP Table 4-1 acceptance criteria.

- **MPPEH Inspection and Processing:** Follow-up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.

- UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
- UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
- SUXOS and UXOQCS inspected approximately 66 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)



## DAILY QUALITY CONTROL REPORT



**CONTRACT:** W912BV-11-D-0016

**TASK ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation for Former Maneuver Area A

**LOCATION:** Ft Bliss, El Paso, TX

**REPORT #:** 028

**DATE:** 08 Mar 2013

PHASE	LIST DEFINABLE FEATURES OF WORK, LOCATION, AND INSPECTION COMMENTS	
Preparatory	MEC Disposal Operations remains in the preparatory phase as they have yet to initiate this operation in the field.	
Initial		SPECIFIC INSPECTIONS PERFORMED
Follow-Up	<b>Intrusive Investigation:</b> UXO TM1 and TM2 completed intrusive investigation in Transect Area A and Transect Area J. <b>MPPEH Inspection and Processing:</b> MPPEH inspection process continued concurrently with intrusive investigation operations and detector aided surface clearance operations today. See remarks below.	SPECIFIC INSPECTIONS PERFORMED
		- Follow-Up Phase Inspection for Intrusive Investigation. See remarks below. - Follow-Up Phase Inspection for MPPEH Inspection and Processing. See remarks below.
NON-COMPLIANT ITEMS <u>IDENTIFIED</u> TODAY		NON-COMPLIANT ITEMS <u>CORRECTED</u> TODAY
NONE		NONE

**Additional Remarks:**

- **Grid Delineation:** A total of two grid locations were established in Transect Area B (grids B1 and B2) based on intrusive investigation results which indicate a higher potential for MEC in these areas. In accordance with RI/WP, these two 100'x100' grids will be subjected to 100% DGM data collection, data analysis, and further intrusive investigation of selected sub-surface anomalies.
  - In accordance with WP Table 4-1, GEOQCS and UXOQCS placed corner stakes in these two grids in preparation for 100% DGM data collection.
- **Data Management:**
  - UXOQCS and GEOQCS reviewed data base entries for 07 Mar 2013. No discrepancies were noted.
  - In accordance with WP Table 4-1, GIS Mgr. verified data collected for 07 Mar 2013 was backed up and stored properly.
- **Intrusive Investigation:** Follow-Up Phase Inspection was performed today for UXO TM1. No discrepancies or deficiencies were noted. All procedures were performed safely and in accordance with WP requirements.
  - UXOQCS verified and observed Schonstedt and Juno GPS function checks at the ITS this morning.
  - UXOQCS observed intrusive investigation procedures for UXO TM1 being performed in Transect Area A.
  - All procedures were performed safely and in accordance with RI/WP requirements.
  - No MEC was reported today.
- **Intrusive Investigation: Transect Area A QC seeds**
  - In accordance with WP Table 4-1, UXOQCS verified the following QC seeds were successfully recovered during intrusive investigation today:

Seed #	Transect Area	Anomaly	UXO Team	Seed #	Transect Area	Anomaly	UXO Team
#003	A	A21	1	#005	A	A6	1
#001	A	A32	1	#011	A	A32	1

- **MPPEH Inspection and Processing:** Follow-Up Phase Inspection was completed today. No discrepancies or deficiencies were noted. Procedures were performed safely and in accordance with WP requirements.
  - UXOQCS observed and monitored MPPEH inspection process for both UXO teams. MPPEH was carefully identified, examined, inspected, and categorized. No discrepancies were noted.
  - UXOQCS conducted in-grid random inspections of recovered MD. No discrepancies were noted.
  - SUXOS and UXOQCS inspected approximately 5 pounds of recovered MD and secured and certified it as Material Documented as Safe (MDAS) awaiting final disposition.

On behalf of the contractor, I certify that this report is complete and correct and the equipment and material used and work performed during this reporting period is in compliance with the work plan specifications to the best of my knowledge unless otherwise noted in this report.

(b) (6)

### G.3 Daily Health and Safety Reports

# DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A FT Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 001

**DATE:** 01-29-2013

**START TIME:** 0730

**END TIME:** 1730

**WEATHER CONDITIONS:**      **HIGH:** 42      **LOW:** 30      **HUMIDITY:** 32%      **UV:** 5 OF 16  
**WINDS:** W 20 MPH / **LIGHT**  
**GUSTING 30MPH**      **SUNRISE:** 0701      **SUNSET:** 1738      **RAIN:** SNOW      **LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

NONE. SEE REMARKS BELOW.

**DAILY OPERATIONS:**

\*SUXOS/UXOQCS/UXOSO conducted initial site-specific training and indoctrination:

- Site-specific training and indoctrination was completed today for the following topics / items:
  - o Work site / office – Daily routine, vehicle assignments, administration (time sheets / expense reports)
  - o Remedial Investigation Work Plan – Project personnel / positions, goals/objectives, scope of work, and site history.
  - o Quality Control – purpose, quality control plan, three phase inspection process, final QC acceptance inspection process, definable features of work, inspection criteria, MMRP definitions (MEC, MPPEH, RRD, MD), non-conformance reports, equipment testing, QC seeding program, data base management.
  - o Site Safety Health Plan – purpose, PPE, Activity Hazard analysis, driving safety, biological hazards, weather, physical hazards, emergency procedures & hospital route, communications plan, MEC safety precautions, MSDS, spill plan, fire protection plan, federal employee rights,
  - o Explosive Safety Submission – purpose, exclusion zone management, team separation distance, MSD & MGFD distances.
  - o Personnel Certifications: UXOSO began reviewing all site personnel certifications (EOD/UXO, OSHA 40 hour HAZWOPER, 8 hour refresher, OSHA Supervisor, 1<sup>st</sup> aid/CPR). Verification to be completed by 1/30/2013.
  - Local spreadsheet in place to monitor personnel for refresher training and/or re-certification.
  - o All briefings, training, and indoctrination were of high quality and provided valuable information for all project personnel and were delivered in accordance with all applicable plans (WP, APP, SSHP, ESP)

\*Two rental trucks were picked up from Enterprise.

\*Supplies and materials were bought.

\*Initial vehicle safety inspections were completed for 6 site vehicles. No discrepancies were noted.

\*SUXOS conducted site visit with Team Leaders and UXOSO.

\*High winds prevented set up of RTK base station. No field operations were performed.

**REMARKS:** NONE.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)





## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
FT Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 002

**DATE:** 01-30-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**      **HIGH:** 52                      **LOW:** 30                      **HUMIDITY:** 28-32%                      **UV:** 5    OF 16  
**WINDS:** W @ 5-10  
**MPH**                      **SUNRISE:** 0700                      **SUNSET:** 1739                      **RAIN:** NO                      **LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC operations, slips/trips/falls, review of site information, work area description, biological hazards and avoidance, hydration, cold stress, heat stress, lifting hazards, hand tool precautions, driving hazards, PPE, hospital directions, team separation distance, HFD, rally points, emergency precautions
- Safety Topic: Tabletop emergency evacuation drill/procedures

**DAILY OPERATIONS:**

- SUXOS/UXOQCS/UXOSO conducted site safety briefing.
- Communications check with personal cell phones and Motorola hand-held radios.
- UXO personnel conducted equipment function checks for Schonstedt detectors and Trimble Juno GPS units.
- GEO personnel fabricated 2 litters for the EM-61 magnetometers and setup the RTK base station to obtain a control point.
- UXO Team cleared two proposed Instrument Verification Strip (IVS) locations. Observed proper use of Schonstedt GA-52 detector by UXO team to verify no sub-surface anomalies were within the IVS area.
- UXO teams completed visual survey of 20 small parcels located within the MRS.
- No MEC was reported today. MEC avoidance protocol is in effect for all personnel.

**REMARKS:** NONE.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 003

**DATE:** 01-31-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

**HIGH:** 59

**LOW:** 32

**HUMIDITY:** 27-37%

**UV:** 5 OF 16

**WINDS:** W @ 5-10  
MPH

**SUNRISE:** 0700

**SUNSET:** 1740

**RAIN:** NO

**LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC operations, slips/trips/falls, review of site information, work area description, biological hazards and avoidance, hydration, cold stress, heat stress, lifting hazards, hand tool precautions, driving hazards, PPE, hospital directions, team separation distance, HFD, rally points, emergency precautions
- Safety Topic: Personnel Certifications.

**DAILY OPERATIONS:**

- SUXOS/UXOQCS/UXOSO conducted site safety briefing.
- Communications check with personal cell phones and Motorola hand-held radios.
- UXOSO completed review of personnel certifications. 6 personnel were identified with missing/expired certifications. 5 of these were corrected today. Additionally, personnel were identified with physical/certifications which will expire during the project months of Feb-Mar and appointments are being scheduled.
- UXO personnel conducted equipment function checks for Schonstedt detectors and Trimble Juno GPS units.
- GEO personnel completed fabricating litters for the EM-61 magnetometers. IVS data was collected by each Geo team.
- Geo Team 1 collected DGM data in Transect Area "B" (50% complete).
- Geo Team 2 collected DGM data in Transect Area "A" (10% complete).
- UXO Team 1 and UXO Team 2 are currently combined due to the re-assignment of 4 UXO personnel to the two Geo teams.
- UXO Team completed visual survey of 44 small parcel located in the center of the MRS.
- No MEC was reported today. MEC avoidance protocol is in effect for all personnel.

**REMARKS:** NONE.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 004

**DATE:** 02-1-2013

**START TIME:** 0700

**END TIME:** 1300

**WEATHER CONDITIONS:**      **HIGH:** 65      **LOW:** 32      **HUMIDITY:** 25-35%      **UV:** 5 of 16  
**WINDS:** WNW @ 5  
**MPH**      **SUNRISE:** 0659      **SUNSET:** 1741      **RAIN:** NO      **LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- Slips/trips/falls, MEC avoidance.
- Safety Topic: M2 4.2" mortar.

**DAILY OPERATIONS:**

- UXO Teams are off today due to 40-hour work limit and pending WP approval. SUXOS and GEO Teams are relocating equipment to storage locker near site.
- UXOQCS and GEOQCS seeded Transect Area "C".

**REMARKS:** NONE.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT: W912BV-11-D-0016**

**DELIVERY  
ORDER: 0002**

**PROJECT #: 16170698**

**PROJECT MANAGER: (b) (6)**

**PROJECT: Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss**

**LOCATION: El Paso, TX**

**REPORT #: 005**

**DATE: 02-4-2013**

**START TIME: 0700**

**END TIME: 1730**

**WEATHER CONDITIONS:**

**HIGH: 65**

**LOW: 32**

**HUMIDITY: 25-35%**

**UV: 5 OF 16**

**WINDS: WNW @ 5  
MPH**

**SUNRISE: 0659**

**SUNSET: 1741**

**RAIN: NO**

**LIGHTNING: NO**

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, EM-61) function checks.
- Observed weekly vehicle safety inspections. Received current proof of insurance from URS Omaha office.
- Conducted communications checks.
- Conducted site-specific training for Darrel Hall, URS Geophysicist.
- Geo Team 1 worked in Transect Area "C".
- Geo Team 2 completed work in Transect Area "B" and began DGM data collection in Transect Area "A".
- UXO Teams completed visual survey of 30 small parcels in the center of the MRS. They also completed the elliptical parcel located in the northeast portion of the MRS.

**REMARKS:**

- Completed review/verification of personnel training certifications. No discrepancies exist. Personnel due for refresher and/or physicals for the months of February and March have been identified and appointments or training is being scheduled.
- GEOQCS Harry Wagner is off site from 4-11 February. Briefed URS Geophysicist Darrel Hall, acting GEOQCS, for site-specific training.
- Observed DGM data collection in Transect Area "A". Observed Geo T/L puncture leg above his knee. Proper PPE was worn along with personally procured "brush-pants". Self-aid was applied with no further attention required. Transect Area "A" is known as the worst of the MRS transect areas due to the carpet-like agave, acacia, and cactus, which is very thick in most places of this area and presents a puncture hazard to personnel. As discussed with URS MMRP Safety Mgr., DGM operations are ceased in Transect Area "A" until a hazard analysis can be completed to determine if the completion of DGM data collection is worth the safety risk to personnel.
- UXOSO will be ordering stainless steel insoles for all site personnel to help prevent through and through boot sole punctures from thorns.
- No MEC was reported today.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 006

**DATE:** 02-5-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

**HIGH:** 68

**LOW:** 41

**HUMIDITY:** 33-43%

**UV:** 5 OF 16

**WINDS:** NW @ 5-10

**MPH**

**SUNRISE:** 0656

**SUNSET:** 1744

**RAIN:** NO

**LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: White Phosphorous (WP) precautions.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Verified all site vehicles received current Texas insurance certificates.
- Observed equipment (Schonstedt, EM-61) function checks.
- Conducted communications checks.
- Took photos of Transect Area "A" to document the heavy brush (acacia, agave, cactus) which caused the cessation of DGM operations due to the potential of severe personnel injury (trips/punctures) while operating a litter mounted EM-61 magnetometer for DGM data collection.
- Observed IVS operations for both Geo Teams.
- Observed Geo Teams 1 & 2 working in Transect Area "C".
- UXO Teams completed visual survey of 33 small parcels in the center of the MRS. They also completed mapping the accessible portion of the elliptical parcel located in the southeast portion of the MRS. Visual surveys are scheduled to be completed by UXO personnel on 2/6/2013.

**REMARKS:**

- UXOSO will be ordering stainless steel insoles for all site personnel to help prevent through-and-through boot sole punctures from thorns.
- Two portable toilets were delivered to the site today by OK Pumps of EL Paso, TX
- No MEC was reported today.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 007

**DATE:** 02-6-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**      **HIGH:** 69      **LOW:** 42      **HUMIDITY:** 33-41%      **UV:** 5 OF 16  
**WINDS:** WSW 10-15  
**MPH**      **SUNRISE:** 0655      **SUNSET:** 1745      **RAIN:** NO      **LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, EM-61) function checks.
- Conducted communications checks.
- Observed Geo Teams 1 & 2 working in Transect Area "C".
- UXO Teams completed visual survey of southeastern elliptical parcel.

**REMARKS:**

- No MEC was reported today. MEC Avoidance protocol is in effect for all personnel due to WP/ESS approval.
- UXOSO verified emergency air medevac contacts and procedures to be made in case of a medical situation warranting emergency transport of a trauma patient by helicopter. Site personnel are to use 911 as primary means for emergency response in the event of an accident with the emphasis to articulate the need to 911 operators if a helicopter is needed to evacuate a patient. Native Air Operations Supervisor stated that they are often put on stand-by for most 911 medical responses. They estimated a 10-15 minute response time from El Paso to the site location.
  - The responding agency is Native Air with helicopters available from El Paso, TX, Las Cruces, NM, and Alamogordo, NM.
  - Native Air emergency phone number is 1-800-242-6199 and will be provided to site personnel as a secondary number.
  - UXOSO will brief air medevac protocol and helicopter operations to crew on 2/7/2013.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 008

**DATE:** 02-7-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**      **HIGH:** 67      **LOW:** 39      **HUMIDITY:** 33-38%      **UV:** 5 OF 16  
**WINDS:** W 10-15 MPH      **SUNRISE:** 0654      **SUNSET:** 1746      **RAIN:** NO      **LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: Helicopter medical evacuation, 911 procedures to initiate a helicopter medevac, Landing zone precautions.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, EM-61) function checks.
- Conducted communications checks.
- Observed Geo Teams 1 & 2 working in Transect Area "D". Noted excellent MEC avoidance protocol and team member communications.
- UXO Teams completed visual survey of attainable/accessible parcels located within the MRS.

**REMARKS:**

- No MEC was reported today. MEC Avoidance protocol is in effect for all personnel due to WP/ESS approval.
- Puncture proof boot insoles were ordered for all site personnel today.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)





## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 009

**DATE:** 02-8-2013

**START TIME:** 0800

**END TIME:** 1630

**WEATHER CONDITIONS:**      **HIGH:** 70                      **LOW:** 42                      **HUMIDITY:** 28%                      **UV:** 5    of 16  
**WINDS:** SSE 10-  
20MPH                      **SUNRISE:** 0654                      **SUNSET:** 1747                      **RAIN:** NO                      **LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing. Operations for today are IVS-South data collection by Geo Teams and QC is seeding transect areas.
- Conducted communications checks.
- Geo Teams 1 & 2 collected data at IVS-South and secured operations for the day. UXOSO observed IVS operations.
- UXOQCS and UXO Assistant seeded Transect Areas F, G, H, I, and L.

**REMARKS:**

- With the exception of 1 UXO tech to assist QC, no UXO personnel worked today due to pending WP approval.
- No MEC was reported today. MEC Avoidance protocol is in effect for all personnel due to WP/ESS approval.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT: W912BV-11-D-0016**

**DELIVERY  
ORDER: 0002**

**PROJECT #: 16170698**

**PROJECT MANAGER: (b) (6)**

**PROJECT: Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss**

**LOCATION: El Paso, TX**

**REPORT #: 010**

**DATE: 02-11-2013**

**START TIME: 0700**

**END TIME: 1730**

## WEATHER CONDITIONS:

**SUNNY**

**HIGH: 60**

**LOW: 36**

**HUMIDITY: 18-29%**

**UV: 5 OF 16**

**WINDS: SW 10-15**

**MPH**

**SUNRISE: 0651**

**SUNSET: 1750**

**RAIN: NO**

**LIGHTNING: NO**

## TAILGATE SAFETY BRIEFING:

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing. Operations scheduled for today are EM61 QC checks at IVS-South and DGM data collection by Geo Teams in areas F, G, I, and L.
- Conducted communications checks.
- Geo Teams 1 & 2 collected data at IVS-South.
- Geo Team 1 completed data collection in Areas F and L.
- Geo Team 2 completed data collection in Areas G and I.
- UXOSO observed Geo operations with Team 2 all day. All operations were conducted safely.

## REMARKS:

- No UXO personnel worked today due to pending WP approval.
- No MEC was reported today. MEC Avoidance protocol is in effect for all personnel due to WP/ESS approval.
- Darrel Hall demobilized from the site on 2/9.
- GEOQCS Harry Wagner returned to the site on 2/11.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

**(b) (6)**



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 011

**DATE:** 02-12-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

SUNNY

HIGH: 53

LOW: 25

HUMIDITY: 27-29%

UV: 5 OF 16

WINDS: WNW 10-20

MPH

SUNRISE: 0650

SUNSET: 1751

RAIN: NO

LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: Driving Safety and local traffic hazards/awareness.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Operations scheduled for today are EM61 QC checks at IVS-South, DGM data collection in Areas J and K, anomaly reacquisition in Area B, QC seeding in Areas E, J, and K, and limited vegetation removal in Area A.
- Conducted communications checks.
- Conducted weekly vehicle safety inspection for six site vehicles. No discrepancies or deficiencies were noted.
- UXOSO observed EM61 QC checks at IVS-South.
- UXOSO observed vegetation removal in Area A. See remarks below.

**REMARKS:**

- No MEC was reported today. MEC Avoidance protocol is in effect for all personnel due to WP/ESS approval.
- UXOSO issued all site personnel puncture resistant insoles to be worn as mandatory PPE with footwear.
- Vegetation removal: UXOSO observed limited vegetation removal by UXO personnel in Area A. Brush thinning/removal was performed safely using 2 pairs of large hand-operated pruners (loppers). All precautions were observed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY  
ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 012

**DATE:** 02-13-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

SUNNY HIGH: 56 LOW: 28 HUMIDITY: 20-26% UV: 5 OF 16  
WINDS: NW 5-10 MPH SUNRISE: 0649 SUNSET: 1751 RAIN: NO LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: Gas Powered Equipment: Inspection, Use, PPE, Precautions
- Safety Topic: Spill Prevention: Equipment and Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Operations scheduled for today are EM61 QC checks at IVS-South, DGM data collection in Transect Areas J, K, and E. Anomaly reacquisition began in Transect Area C, and limited vegetation removal continued in Transect Area A using hand and gas-powered equipment.
- Conducted communications checks.
- UXOSO observed vegetation removal in Transect Area A. See remarks below.
- UXOSO observed anomaly reacquisition team in Transect Area C. Noted proper MEC avoidance protocol and reacquisition procedures.

**REMARKS:**

- No MEC was reported today. MEC Avoidance protocol is in effect for all personnel due to WP/ESS approval.
- Vegetation removal: Limited vegetation removal in Transect Area A continued today by UXO personnel employing hand-operated and gas-powered brush cutting equipment.
- UXOSO observed equipment preparation, staging, and inspection. All required spill prevention/response equipment was available on hand. All appropriate PPE was available, worn properly, and in good condition. All precautions were observed. See photos attached on last page.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT: W912BV-11-D-0016**

**DELIVERY  
ORDER: 0002**

**PROJECT #: 16170698**

**PROJECT MANAGER: (b) (6)**

**PROJECT: Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss**

**LOCATION: El Paso, TX**

**REPORT #: 013**

**DATE: 02-14-2013**

**START TIME: 0700**

**END TIME: 1730**

## WEATHER CONDITIONS:

**SUNNY**                      **HIGH: 62**                      **LOW: 33**                      **HUMIDITY: 21-35%**                      **UV: 5 of 16**

## WINDS:

**LIGHT/VARIABLE**                      **SUNRISE: 0648**                      **SUNSET: 1752**                      **RAIN: NO**                      **LIGHTNING: NO**

## TAILGATE SAFETY BRIEFING:

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Operations scheduled for today are EM61 QC checks at IVS-North and DGM data collection in Transect Area E. Anomaly reacquisition will continue in Transect Area C, and limited vegetation removal will continue in Transect Area A using hand and gas-powered equipment.
- Conducted communications checks.
- UXOSO observed vegetation removal in Transect Area A. See remarks below.
- UXOSO observed anomaly reacquisition team in Transect Area C. Noted proper MEC avoidance protocol and reacquisition procedures.

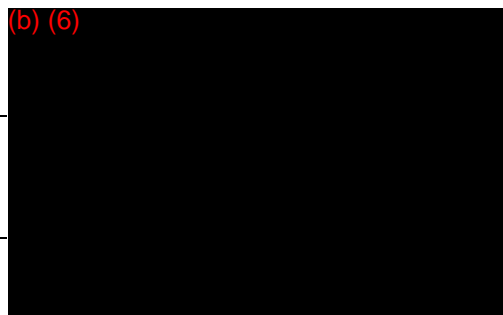
## REMARKS:

- MEC: A fuzed, fired 4.2" mortar was found on the surface by the Reacquisition Team while flagging anomalies in Transect Area B on 2/13/2013. SUXOS and UXOSO were directed to conduct a reconnaissance of the projectile to verify/identify it.
  - Due to rust, the "M" model designation was not determined. A painted, yellow 4" band was found on the projectile body.
  - No fuze adapter is present in the nose. Photos attached on last page of this report.
- MEC avoidance protocol remains in effect for all personnel due to WP/ESS approval.
- Vegetation removal: Limited vegetation removal in Transect Area A continued today by UXO personnel employing hand-operated and gas-powered brush cutting equipment.
  - UXOSO observed equipment preparation, staging, and inspection. All required spill prevention/response equipment was available on hand. All appropriate PPE was available, worn properly, and in good condition. All precautions were observed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)



# DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A Ft Bliss

**LOCATION:** El Paso, TX

**REPORT #:** 014

**DATE:** 02-15-2013

**START TIME:** 0700

**END TIME:** 1730

## WEATHER CONDITIONS:

SUNNY

HIGH: 59

LOW: 32

HUMIDITY: 33-36%

UV: 5 OF 16

WINDS: ENE 5-10

SUNRISE: 0647

SUNSET: 1753

RAIN: NO

LIGHTNING: NO

## TAILGATE SAFETY BRIEFING:

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Operations scheduled for today include Anomaly reacquisition in Transect Area D and limited vegetation removal in Transect Area A using hand and gas-powered equipment.
- Conducted communications checks.
- UXOSO observed vegetation removal in Transect Area A. See remarks below.

## REMARKS:

- MEC avoidance protocol remains in effect for all personnel due to WP/ESS approval.
- Geo1 T/L Brad Boileau demobilized from the site today.
- Geo team personnel are off today.
- Reacquisition Team flagged target anomalies in Transect Area D (40% complete).
- Vegetation removal: Limited vegetation removal in Transect Area A was completed today by UXO personnel employing hand-operated and gas-powered brush cutting equipment.
  - UXOSO observed equipment preparation, staging, and inspection. All required spill prevention/response equipment was available on hand. All appropriate PPE was available, worn properly, and in good condition. All precautions were observed.

URS PERSONNEL ONSITE: (see attached roster)

SUBCONTRACTOR PERSONNEL ONSITE: (see attached roster)

VISITORS ONSITE: (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:**  
#015

**DATE:** 02-19-2013

**START TIME:** 0700

**END TIME:** 1730

## WEATHER CONDITIONS:

PARTLY CLOUDY /

RAIN/WIND

**HIGH:** 70

**LOW:** 42

**HUMIDITY:** 17-40%

**UV:** 6 OF 16

**WINDS:** S 20-30 MPH

**SUNRISE:** 0643

**SUNSET:** 1756

**RAIN:** YES

**LIGHTNING:** NO

## TAILGATE SAFETY BRIEFING:

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: URS Safety News Volume 1 Issue 2 Feb 2013: Pre-Work Safety Planning

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Weekly vehicle safety inspections were performed. No discrepancies or deficiencies were noted/reported.
- UXOQCS/UXOSO observed equipment (Schonstedt, EM61) function checks.
- Conducted communications checks.
- USA EOD from Ft Bliss 741<sup>st</sup> EOD on site from 1000-1230 to conduct MEC disposal operations in Transect Area B. See remarks below.
- UXOSO observed Geo TM1 data collection in Transect Area A (35% completed). Noted excellent MEC avoidance protocol and team member communications.
- UXO Team began visual survey of remaining parcel (60% complete).
- Reacquisition Team flagged target anomalies in Transect Area D (85% complete).

## REMARKS:

- EOD personnel from 741<sup>st</sup> EOD Detachment Ft Bliss, TX were on site today to destroy 1 each 4.2" HE mortar reported found last week in Transect Area B (near target B20). The mortar was destroyed in place safely without incident. UXOSO/UXOQCS will inspect/verify disposal site on 2/20/2013.
- No MEC was reported during today's field work. MEC avoidance protocol remains in effect for all personnel due to WP/ESS approval.
- Received 1<sup>st</sup> Responder Medical Trauma Kit and folding stretcher. EMT Josh Harris will unpack/organize trauma kit and, on 2/20/2013, will give a briefing of the trauma kit use/contents and proper use of patient transport with the stretcher.
  - Trauma kit will remain in the UXOSO vehicle for emergency use only. The stretcher will be stored in the PODS conex for emergency use.
- **High Wind Warning (with 10%-20% rain) is in effect from 1000-1900 MST Wednesday, 20 Feb 2013. Winds 25-40, with gusts >70mph, are forecast for the local area.**

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)





## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:**  
#016

**DATE:** 02-20-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

SUNNY

**HIGH:** 65

**LOW:** 37

**HUMIDITY:** 17-40%

**UV:** 6 OF 16

**WINDS:** SEE BELOW.

**SUNRISE:** 0643

**SUNSET:** 1756

**RAIN:** YES

**LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: High Wind Precautions. High wind warning in effect for the local area from 1200-2200 MST. Winds forecast for WSW 25-40, gusting 60-70. \*\* The High Wind Warning was cancelled this afternoon with a revised forecast of 20-40 mph winds.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- UXO Tech II Josh Faust demobilized from the site due to family emergency.
- UXOQCS/UXOSO observed equipment (Schonstedt, EM61) function checks.
- Conducted communications checks.
- UXOSO observed Geo TM1 data collection in Transect Area A. Data collection is complete for all areas. Noted excellent MEC avoidance protocol and team member communications. Vegetation removal made data collection in Transect Area A much safer.
- UXO Team completed visual survey of the last remaining parcel.
- Reacquisition Team completed flagging target anomalies in Transect Area D.

**REMARKS:**

- UXOSO/UXOQCS and GEOQCS inspected/verified the BIP location in Transect Area B where the 4.2" mortar was destroyed by Ft Bliss EOD personnel yesterday.
  - The mortar was fully destroyed.
- No MEC was reported during today's field work. MEC avoidance protocol remains in effect for all personnel due to WP/ESS approval.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #017

**DATE:** 02-21-2013

**START TIME:** 1000

**END TIME:** 1730

**WEATHER CONDITIONS:**

SUNNY

HIGH: 55

LOW: 35

HUMIDITY: 28-35%

UV: 6 OF 16

WINDS: W 20-30

SUNRISE: 0641

SUNSET: 1758

RAIN: NO

LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: MEC and Intrusive Excavation precautions/procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Received approved ESP and began intrusive operations. See remarks below.
- Observed equipment (Schonstedt, EM61) function checks.
- GEOQCS and UXOQCS conducted MEC/Intrusive operation briefing/training review to crew prior to beginning intrusive operations in Transect Areas B and C today.
- Conducted communication checks.
- UXOSO observed UXO TM1 and UXO TM2 conduct intrusive operations in Transect Area B. Team separation distances were properly observed. Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- SUXOS and UXOQCS inspected, verified, and secured approximately 30 pounds of MDAS today.
- No MEC was reported today.

**REMARKS:**

- Received USACE Memorandum dated 20 Feb 2013 referencing DDESB approval to Explosive Site Plan, Remedial Investigation Former Maneuver Area A, Ft Bliss, El Paso, TX.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #018

**DATE:** 02-22-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

SUNNY

HIGH: 57

LOW: 33

HUMIDITY: 32-38%

UV: 6 OF 16

WINDS: W 10-20

SUNRISE: 0640

SUNSET: 1759

RAIN: NO

LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: MEC and Intrusive Excavation precautions/procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, EM61) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM1 and UXO TM2 conduct intrusive operations in Transect Area C. Team separation distances were properly observed. Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- SUXOS and UXOQCS inspected, verified, and secured approximately 80 pounds of MDAS today.
- MEC: (1) fuzed/fired M2 4.2" mortar (screening smoke) was excavated at Target C30 in Transect Area C. The mortar was left in place and appropriate security measures were placed into effect until disposal operations can be completed. UXOSO/UXOQCS observed detection, excavation, and identification of the mortar. All procedures were performed safely and in accordance with WP requirements.

**REMARKS:**

- WEEKLY CONFERENCE CALL 1000 MST.
- GEOQCS IS OFF SITE UNTIL 3/4/13.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #019

**DATE:** 02-25-2013

**START TIME:** 0700

**END TIME:** 1730

### WEATHER CONDITIONS:

SUNNY

HIGH: 56

LOW: 33

HUMIDITY: 24-30%

UV: 6 OF 16

WINDS: NW 10-20

SUNRISE: 0637

SUNSET: 1801

RAIN: NO

LIGHTNING: NO

### TAILGATE SAFETY BRIEFING:

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: EMY Joshua Harris gave a brief on the Trauma Kit contents and procedures for patient transport (2-man / 4-man carry) using the site military style folding stretcher.

### DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, EM61) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM1 and UXO TM2 conducting intrusive operations in Transect Area C. Team separation distances were properly observed. Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- SUXOS and UXOQCS inspected, verified, and secured approximately 80 pounds of MDAS today.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today. See remarks below.

### REMARKS:

- MEC: (1) fused/fired M2 4.2" mortar (screening smoke) found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C. Appropriate security measures have been placed into effect until disposal operations can be completed.
- Weekly vehicle safety inspections were completed. No discrepancies or deficiencies were noted.
- UXOSO conducted inspection of the two portable field toilets on site. No discrepancies were noted, both are in sanitary condition.
- Received (1) Fire Gel Burn Blanket from the URS Omaha office today.

URS PERSONNEL ONSITE: (see attached roster)

SUBCONTRACTOR PERSONNEL ONSITE: (see attached roster)

VISITORS ONSITE: (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #020

**DATE:** 02-26-2013

**START TIME:** 0700

**END TIME:** 1730

## WEATHER CONDITIONS:

SUNNY

HIGH: 64

LOW: 35

HUMIDITY: 20-22%

UV: 6 OF 16

WINDS: W 10-20

SUNRISE: 0636

SUNSET: 1802

RAIN: NO

LIGHTNING: NO

## TAILGATE SAFETY BRIEFING:

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, EM61) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM1 and UXO TM2 conduct intrusive operations in Transect Area C. Team separation distances were properly observed. Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- UXOSO observed UXO TM1 and UXO TM2 conduct intrusive operations in Transect Area D. Team separation distances were properly observed. Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- MEC: Team 1 excavated (1) M2 mortar (screening smoke) (fuzed/fired), fuze sheared off, located at Transect Area D target #181. GPS location recorded and photos taken. Left in place for pending disposal operations.
- SUXOS and UXOQCS inspected, verified, and secured approximately 156 pounds of MDAS today.
- All procedures were performed safely and in accordance with WP requirements.

## REMARKS:

- MEC: (1) fuzed/fired M2 4.2" mortar (screening smoke) found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C. Appropriate security measures have been placed into effect until disposal operations can be completed.

URS PERSONNEL ONSITE: (see attached roster)

SUBCONTRACTOR PERSONNEL ONSITE: (see attached roster)

VISITORS ONSITE: (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT: W912BV-11-D-0016**

**DELIVERY ORDER: 0002**

**PROJECT #: 16170698**

**PROJECT MANAGER: (b) (6)**

**PROJECT: Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss**

**LOCATION: El Paso, TX**

**REPORT: #021**

**DATE: 02-27-2013**

**START TIME: 0700**

**END TIME: 1730**

## WEATHER CONDITIONS:

**SUNNY**

**HIGH: 57**

**LOW: 32**

**HUMIDITY: 18-31%**

**UV: 7 OF 16**

**WINDS: E 5-10**

**SUNRISE: 0635**

**SUNSET: 1803**

**RAIN: NO**

**LIGHTNING: NO**

## TAILGATE SAFETY BRIEFING:

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- UXOSO/UXOQCS R. Burrington is off site due to illness. UXO Tech 3 K. Montgomery is acting UXOSO/UXOQCS until further notice.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, EM61) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM1 and UXO TM2 conduct intrusive operations in Transect Area D. Team separation distances were properly observed. Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- SUXOS and UXOQCS inspected, verified, and secured approximately 121 pounds of MDAS today.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today. See remarks below.

## REMARKS:

- URS PM arrived on site this afternoon to observe operations.
- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT: W912BV-11-D-0016**

**DELIVERY ORDER: 0002**

**PROJECT #: 16170698**

**PROJECT MANAGER: (b) (6)**

**PROJECT: Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss**

**LOCATION: El Paso, TX**

**REPORT: #022**

**DATE: 02-28-2013**

**START TIME: 0700**

**END TIME: 1730**

## WEATHER CONDITIONS:

**SUNNY**

**HIGH: 58**

**LOW: 34**

**HUMIDITY: 20-24%**

**UV: 7 OF 16**

**WINDS: N 5-10**

**SUNRISE: 0634**

**SUNSET: 1803**

**RAIN: NO**

**LIGHTNING: NO**

## TAILGATE SAFETY BRIEFING:

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- URS PM is on site to observe operations.
- Observed equipment (Schonstedt, EM61) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM1 and UXO TM2 conduct intrusive operations in Transect Area D. Team separation distances were properly observed. Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- SUXOS and UXOQCS inspected, verified, and secured approximately 77 pounds of MDAS today.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today. See remarks below.

## REMARKS:

- UXOSO R. Burrington off site due to illness. UXO Tech III K. Montgomery is acting UXOSO/UXOQCS.
- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)





## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #023

**DATE:** 03-01-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

SUNNY

HIGH: 62

LOW: 35

HUMIDITY: 18-25%

UV: 7 OF 16

WINDS: NNE 10-15

SUNRISE: 0632

SUNSET: 1804

RAIN: NO

LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- USACE OESS arrived on site.
- Observed equipment (Schonstedt, EM61) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM2 conduct intrusive operations in Transect Area F. Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- Reacquisition Team flagged targets in Transect Areas E, F, G, H, I, and L today.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC or MD was reported today.

**REMARKS:**

- UXOSO R. Burrington off site due to illness. UXO Tech III K. Montgomery is acting UXOSO/UXOQCS.
- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT: W912BV-11-D-0016**

**DELIVERY ORDER: 0002**

**PROJECT #: 16170698**

**PROJECT MANAGER: (b) (6)**

**PROJECT: Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss**

**LOCATION: El Paso, TX**

**REPORT: #024**

**DATE: 03-04-2013**

**START TIME: 0700**

**END TIME: 1730**

## WEATHER CONDITIONS:

PARTLY CLOUDY

HIGH: 77

LOW: 45

HUMIDITY: 13-28%

UV: 7 OF 16

WINDS: W 25-35 G>45

SUNRISE: 0629

SUNSET: 1806

RAIN: NO

LIGHTNING: NO

## TAILGATE SAFETY BRIEFING:

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Conducted weekly vehicle safety inspections. No discrepancies or deficiencies were noted.
- Observed equipment (Schonstedt, GPS) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM2 conduct intrusive operations in Transect Area F.
- UXOSO observed UXO TM 1 conduct intrusive operations in Transect Areas E and H.
- Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- Reacquisition Team flagged targets in Transect areas J and K.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today.

## REMARKS:

- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

URS PERSONNEL ONSITE: (see attached roster)

SUBCONTRACTOR PERSONNEL ONSITE: (see attached roster)

VISITORS ONSITE: (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #025

**DATE:** 03-05-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

MOSTLY SUNNY

**HIGH:** 66

**LOW:** 43

**HUMIDITY:** 31-33%

**UV:** 7 OF 16

**WINDS:** ENE 15-25

**SUNRISE:** 0628

**SUNSET:** 1807

**RAIN:** NO

**LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, GPS) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM2 complete intrusive operations in Transect Areas F, G, and I.
- UXOSO observed UXO TM 1 conduct intrusive operations in Transect Area L.
- Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- Reacquisition Team flagged targets in Transect Areas A and D today.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today.

**REMARKS:**

- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #026

**DATE:** 03-06-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

MOSTLY SUNNY

**HIGH:** 78

**LOW:** 49

**HUMIDITY:** 19-28%

**UV:** 7 OF 16

**WINDS:** SSE 10-15

**SUNRISE:** 0627

**SUNSET:** 1808

**RAIN:** NO

**LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, GPS) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM 2 conduct intrusive operations in Transect Areas J and K.
- Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today.

**REMARKS:**

- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT: W912BV-11-D-0016**

**DELIVERY ORDER: 0002**

**PROJECT #: 16170698**

**PROJECT MANAGER: (b) (6)**

**PROJECT: Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss**

**LOCATION: El Paso, TX**

**REPORT: #027**

**DATE: 03-07-2013**

**START TIME: 0700**

**END TIME: 1730**

## WEATHER CONDITIONS:

**MOSTLY SUNNY**

**HIGH: 79**

**LOW: 52**

**HUMIDITY: 18-26%**

**UV: 7 OF 16**

**WINDS: SSW 10-15**

**SUNRISE: 0625**

**SUNSET: 1808**

**RAIN: NO**

**LIGHTNING: NO**

## TAILGATE SAFETY BRIEFING:

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, GPS) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM 2 conduct intrusive operations in Transect Areas J and D.
- Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- UXOSO observed UXO TM1 performing surface clearance operations in Transect Area C Grid C3 in preparation for DGM data collection.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today.

## REMARKS:

- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #028

**DATE:** 03-08-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

PARTLY CLOUDY

**HIGH:** 74

**LOW:** 44

**HUMIDITY:** 27-39%

**UV:** 7 OF 16

**WINDS:** SW 20-30

**SUNRISE:** 0624

**SUNSET:** 1809

**RAIN:** YES

**LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC precautions, MEC excavation procedures, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, GPS) function checks.
- Conducted communication checks.
- UXOSO observed UXO TM1 conduct intrusive operations in Transect Area A.
- Proper excavation procedures and MPPEH/MD inspection procedures were in accordance with the WP. All operations were performed safely and in accordance with plans and procedures.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today.

**REMARKS:**

- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #029

**DATE:** 03-11-2013

**START TIME:** 0700

**END TIME:** 1730

### WEATHER CONDITIONS:

SUNNY

HIGH: 67

LOW: 42

HUMIDITY: 19-28%

UV: 7 OF 16

WINDS: LT VARIABLE

SUNRISE: 0721

SUNSET: 1912

RAIN: NO

LIGHTNING: NO

### TAILGATE SAFETY BRIEFING:

- MEC Avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- MEC Avoidance protocol: No intrusive operations scheduled today due to vegetation removal and DGM data collection.
- Safety Topic: Gas powered equipment and Spill Prevention Plan.

### DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, GPS) function checks.
- Conducted communication checks.
- UXOSO observed surface clearance operations by Geo TM in Transect Area J Grid J1. All operations were performed safely. No MEC was reported.
- UXOSO observed UXO TM1 and TM 2 (combined) conduct vegetation removal using hand tools only in Transect Area B Grid B1. Operations were performed safely and thoroughly. No gas-powered equipment was used.
- All procedures were performed safely and in accordance with WP requirements.
- No MEC was reported today.

### REMARKS:

- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 remains in place at Target D181 in Transect Area D. Appropriate security measures have been placed into effect until disposal operations can be completed.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)





## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #030

**DATE:** 03-12-2013

**START TIME:** 0700

**END TIME:** 1730

### WEATHER CONDITIONS:

SUNNY

HIGH: 74

LOW: 44

HUMIDITY: 19-29%

UV: 8 OF 16

WINDS: LT VARIABLE

SUNRISE: 0720

SUNSET: 1912

RAIN: NO

LIGHTNING: NO

### TAILGATE SAFETY BRIEFING:

- MEC Avoidance, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- MEC Avoidance protocol for Reacquisition Team personnel.

### DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, GPS) function checks.
- Conducted communication checks.
- UXOSO observed reacquisition procedures in Transect Area D (grids D1, D2, D3, and D4). All operations were performed safely.
- UXOSO observed MEC intrusive investigation operations Transect Area D (grids D1, D2, D3, and D4) with UXO TM1 and UXO TM2. All operations were performed safely.
- No MEC was reported today.

### REMARKS:

- MEC: (2) total on site:
  - 1 M2 4.2" mortar found and reported on 2/22/2013 remains in place at Target #C30 in Transect Area C.
  - 1 M2 4.2" mortar found and reported on 2/26/2013 at Target #D181 in Transect Area D was consolidated to Transect Area C Grid C1 near the mortar located at Target #C030.
  - In accordance with WP/ESP, the mortar was determined to be acceptable to move by the SUXOS and UXOSO. URS MMRP Safety Mgr. and USACE OESS were notified and approved of the consolidation prior to the movement of mortar. The consolidation was completed safely.
  - Appropriate security measures have been placed into effect until disposal operations can be completed.

URS PERSONNEL ONSITE: (see attached roster)

SUBCONTRACTOR PERSONNEL ONSITE: (see attached roster)

VISITORS ONSITE: (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #031

**DATE:** 03-13-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

SUNNY

HIGH: 76

LOW: 47

HUMIDITY: 20-23%

UV: 8 OF 16

WINDS: ESE 5-10

SUNRISE: 0718

SUNSET: 1913

RAIN: NO

LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC Avoidance, MEC precautions, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- MEC Avoidance protocol for Reacquisition Team personnel.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Observed equipment (Schonstedt, GPS) function checks.
- Conducted communication checks.
- UXOSO observed intrusive investigation procedures in Transect Area C (grids C1/TM2, C2/TM1, and C3/TM2). All operations were performed safely.
- UXOSO observed Geo TM staking grid corners in Transect Area A Grids A1 and A2. All procedures were performed safely.
- UXOSO observed vegetation using manual and gas-powered equipment in Transect Area A Grids A1 and A2. All operations were performed safely.
- No MEC was reported today.

**REMARKS:**

- MEC: (2) total on site:
  - 2 each M2 4.2" mortars (screening smoke) waiting disposal at Transect Area C Target #030. See previous report for original dates of discovery and consolidation remarks to Grid C1.
  - MEC disposal operations are tentatively scheduled for 3/20/2013.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #032

**DATE:** 03-14-2013

**START TIME:** 0700

**END TIME:** 1730

### WEATHER CONDITIONS:

SUNNY

HIGH: 80

LOW: 51

HUMIDITY: 24-32%

UV: 8 OF 16

WINDS: LT VARIABLE

SUNRISE: 0717

SUNSET: 1914

RAIN: NO

LIGHTNING: NO

### TAILGATE SAFETY BRIEFING:

- MEC Avoidance, MEC precautions, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- MEC Avoidance protocol is in effect for all site personnel.
- No intrusive investigation/MEC operations were performed today.

### DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Conducted communication checks.
- UXOSO/UXOQCS performed QC inspections in Transect Areas C and D today with the help of 1 UXO assistant.
- Operations completed vegetation removal and DGM data collection in Transect Area A Grids A1 and A2.
- Operations began site restoration (grid stake and pin-flag removal).
- All operations were performed safely.
- No MEC was reported today.

### REMARKS:

- MEC: (2) total on site:
  - 2 each M2 4.2" mortars (screening smoke) waiting disposal at Transect Area C Target #030.
  - MEC disposal operations have been tentatively re-scheduled for 3/22/2013 due to continued investigation of grids in Transect Areas C and D.

URS PERSONNEL ONSITE: (see attached roster)

SUBCONTRACTOR PERSONNEL ONSITE: (see attached roster)

VISITORS ONSITE: (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #033

**DATE:** 03-15-2013

**START TIME:** 0700

**END TIME:** 1730

### WEATHER CONDITIONS:

SUNNY

HIGH: 85

LOW: 54

HUMIDITY: 22-29%

UV: 8 OF 16

WINDS: LT VARIABLE

SUNRISE: 0716

SUNSET: 1914

RAIN: NO

LIGHTNING: NO

### TAILGATE SAFETY BRIEFING:

- MEC Avoidance, MEC precautions, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- MEC Avoidance protocol is in effect for all site personnel.
- No intrusive investigation/MEC operations were performed today.

### DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Conducted communication checks.
- Operations continued site restoration in Transect Area D (grid stake and pin-flag removal).
- UXOSO observed grid staking, surface clearance operations, and MPPEH inspection process in Grids D5, D6, D7, D8, and D9.
- UXOSO observed DGM data collection in Grids D9, D8, and D6.
- All operations were performed safely.
- No MEC was reported today.

### REMARKS:

- MEC: (2) total on site:
  - 2 each M2 4.2" mortars (screening smoke) waiting disposal at Transect Area C Target #030. Appropriate security measures remain in place.
  - MEC disposal operations have been tentatively re-scheduled for 3/22/2013 due to continued investigation of grids in Transect Areas C and D.

URS PERSONNEL ONSITE: (see attached roster)

SUBCONTRACTOR PERSONNEL ONSITE: (see attached roster)

VISITORS ONSITE: (see attached roster)

(b) (6)

# DAILY HEALTH & SAFETY REPORT



**CONTRACT: W912BV-11-D-0016**

**DELIVERY ORDER: 0002**

**PROJECT #: 16170698**

**PROJECT MANAGER: (b) (6)**

**PROJECT: Remedial Investigation, MMRP, Former Maneuver Area A Ft Bliss**

**LOCATION: El Paso, TX**

**REPORT: #034**

**DATE: 03-18-2013**

**START TIME: 0700**

**END TIME: 1730**

## WEATHER CONDITIONS:

**SUNNY**

**HIGH: 79**

**LOW: 51**

**HUMIDITY: 16%**

**UV: 8 OF 16**

**WINDS: W @10-20**

**SUNRISE: 0712**

**SUNSET: 1917**

**RAIN: NO**

**LIGHTNING: NO**

## TAILGATE SAFETY BRIEFING:

- MEC Avoidance, MEC precautions, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- MEC intrusive investigation operations resumed today.

## DAILY OPERATIONS:

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Conducted communication checks.
- UXOSO observed grid staking, surface clearance operations, and MPPEH inspection process in Grids C4, C5, C6, C7, and C8.
- UXOSO observed intrusive investigation operations with UXO TM1 in Grid G1.
- UXOSO observed intrusive investigation operations with UXO TM2 in Grids J1 and J2.
- UXOSO observed DGM data collection in Grid C5.
- UXOSO observed manual vegetation (no-power equipment) removal in Grids C4, C5, C6, C7, and C8.
- All operations were performed safely and in accordance with applicable regulations.
- No MEC was reported today.

## REMARKS:

- MEC: (2) total on site:
  - 2 each M2 4.2" mortars (screening smoke) waiting disposal at Transect Area C Target #030. Appropriate security measures remain in place.
  - MEC disposal operations have been tentatively re-scheduled for 3/22/2013 due to continued investigation of grids in Transect Areas C and D.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #035

**DATE:** 03-19-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

SUNNY

HIGH: 79

LOW: 51

HUMIDITY: 15-21%

UV: 8 OF 16

WINDS: WSW @10-20

SUNRISE: 0711

SUNSET: 1917

RAIN: NO

LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC Avoidance, MEC precautions, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Safety Topic: End of project safety measures, complacency, and attention to detail.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Conducted communication checks.
- UXOSO observed intrusive investigation operations with UXO TM1 in Grids A1 and D6.
- UXOSO observed intrusive investigation operations with UXO TM2 in Grids D7 and D9.
- All operations were performed safely and in accordance with applicable regulations.
- No MEC was reported today.

**REMARKS:**

- MEC: (2) total on site:
  - 2 each M2 4.2" mortars (screening smoke) waiting disposal at Transect Area C Target #030. Appropriate security measures remain in place.
  - MEC disposal operations have been tentatively re-scheduled for 3/22/2013 due to continued investigation of grids in Transect Areas C and D.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #036

**DATE:** 03-20-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

PARTLY CLOUDY

**HIGH:** 76

**LOW:** 57

**HUMIDITY:** 23-28%

**UV:** 8 OF 16

**WINDS:** SE 10-20

**SUNRISE:** 0709

**SUNSET:** 1918

**RAIN:** NO

**LIGHTNING:** NO

**TAILGATE SAFETY BRIEFING:**

- MEC precautions, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- Driving Safety: Briefed all site personnel to slow down while driving and to be mindful of the perceptions of local people.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Conducted communication checks.
- UXOSO observed intrusive investigation operations with UXO TM1 in Grids C6 and C7.
- UXOSO observed intrusive investigation operations with UXO TM2 in Grids C5 and C8.
- All operations were performed safely and in accordance with applicable regulations.
- MEC: (1) fused/fired M2 4.2" mortar (screening smoke) was found at Grid C7 Target C7-045 located in Transect Area C. The mortar was left in place for disposal operations scheduled for 3/22/2013.

**REMARKS:**

- MEC: (3) total on site:
  - 2 each M2 4.2" mortars (screening smoke) waiting disposal at Transect Area C Target #030. Appropriate security measures remain in place.
  - 1 ea M2 4.2" mortar as reported above in Grid C7 / Target C7-045.
  - MEC disposal operations have been tentatively re-scheduled for 3/22/2013.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)





## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #037

**DATE:** 03-21-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

MOSTLY CLOUDY

HIGH: 83

LOW: 58

HUMIDITY: 16-21%

UV: 7 OF 16

WINDS: W 20-30

G>40

SUNRISE: 0708

SUNSET: 1919

RAIN: NO

LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC precautions, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Conducted communication checks.
- UXOSO observed intrusive investigation operations with UXO TM2 in Grids B1 and B2.
- All operations were performed safely and in accordance with applicable regulations.
- MEC: (1) fuzed/fired M2 4.2" mortar (screening smoke) was found today at Grid B2 Target B2-009 located in Transect Area B. It was determined to be acceptable to move by the SUXOS and UXOSO. The mortar was consolidated to Grid C7 for disposal.

**REMARKS:**

- MEC: (4) total on site:
  - 2 each M2 4.2" mortars (screening smoke) waiting disposal at Transect Area C Target #030. 1 ea M2 4.2" mortar left in place in Grid C7 / Target C7-045.
  - 1 ea M2 4.2" mortar (found today), relocated to Grid C7-045 for disposal.
  - MEC disposal operations scheduled for 3/22/2013.
  - Appropriate security measures remain in place.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)



## DAILY HEALTH & SAFETY REPORT



**CONTRACT:** W912BV-11-D-0016

**DELIVERY ORDER:** 0002

**PROJECT #:** 16170698

**PROJECT MANAGER:** (b) (6)

**PROJECT:** Remedial Investigation, MMRP, Former Maneuver Area A  
Ft Bliss

**LOCATION:** El Paso, TX

**REPORT:** #038

**DATE:** 03-22-2013

**START TIME:** 0700

**END TIME:** 1730

**WEATHER CONDITIONS:**

PARTLY CLOUDY      HIGH: 80      LOW: 53      HUMIDITY: 16-23%      UV: 8 OF 16  
WINDS: WSW 25-35      SUNRISE: 0707      SUNSET: 1919      RAIN: NO      LIGHTNING: NO

**TAILGATE SAFETY BRIEFING:**

- MEC precautions, slips/trips/falls, Work Area Description, Biological Hazards, Hydration, Vehicle Maintenance, Site Control, Work and Support Zones, PPE, Evacuation Safety, Hospital route, Driving Safety, Hospital directions, Emergency Procedures.
- MEC Disposal Operations

**DAILY OPERATIONS:**

- SUXOS, UXOSO/UXOQCS conducted site safety briefing.
- Conducted communication checks.
- MEC: (4) MEC items (4 each M2 mortars) found to date were safely destroyed. See remarks below.
- Demobilization began following completion of MEC Disposal operations.

**REMARKS:**

- MEC Disposal Operations:
  - SUXOS received donor explosives and conducted physical inventory. Detonating cord lot number did not match on spool and outer packing box. Notified URS MMRP CSM.
  - Demo T/L conducted an excellent safety brief and executed a safe demolition operation.
  - 0935 shot time for disposal of two (2) M2 mortars in Grid C7. 0945 UXOSO and Demo T/L cleared shot.
  - 1000 shot time for disposal of two (2) M2 mortars in Grid C4. 1045 UXOSO and demo T/L cleared shot.
  - 1100 shot time for cleanup shot. 1115 UXOSO and Demo T/L cleared shot. No donor explosives remain on site.
  - 1130 secured from demolition operations.
- All operations were performed safely and in accordance with applicable regulations.

**URS PERSONNEL ONSITE:** (see attached roster)

**SUBCONTRACTOR PERSONNEL ONSITE:** (see attached roster)

**VISITORS ONSITE:** (see attached roster)

(b) (6)

### G.4 1348 Forms

(b) (6)

# Packing List

Date Shipped:

Loader Name:

Vehicle License

Drivers Name

Item Count	Load Number	Weight of Container			SealNumber
		Gross	Tare	Net	
1	1	600			765601
2	2	600			765602
3	3	300			765603
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX

Total Weights: 1500

Signature of Loader: \_\_\_\_\_

Signature of Driver: \_\_\_\_\_



FedEx® Tracking

283008718-6

Ship (P/U) date :  
Fri 3/22/2013 5:57 pm

URS CORPORATION  
EL PASO, TX US  
Origin Terminal  
EL PASO, TX

Actual delivery :  
Wed 3/27/2013 2:04 pm

TIMBERLINE ENCIRON SER  
COLD SPRINGS, CA US  
Destination Location  
MODESTO, CA

Delivered

Signed for by: PACHECO

Let us tell you when your shipment arrives. Sign up for delivery notifications

Travel History

Date/Time	Activity	Location
3/27/2013 - Wednesday		
2:04 pm	Delivered	COLD SPRINGS
9:20 am	Out for delivery	MODESTO, CA
	Manifest Number 507000069011	
9:02 am	At local facility	MODESTO, CA
	Manifest Number 507000069011	
5:55 am	At local facility	MODESTO, CA
4:21 am	In transit	SACRAMENTO, CA
3/26/2013 - Tuesday		
8:07 pm	In transit	KETTLEMAN CITY, CA
1:25 pm	Shipment exception	EL PASO, TX
	Shipper tendered late - adds one day to transit time	
4:40 am	In transit	ALBUQUERQUE, NM
3/25/2013 - Monday		
9:24 pm	In transit	EL PASO, TX
4:42 am	Shipment exception	EL PASO, TX
	Shipper tendered late - adds one day to transit time	
3/22/2013 - Friday		
8:09 pm	Shipment exception	EL PASO, TX
	Shipper tendered late - adds one day to transit time	
8:08 pm	Shipment exception	EL PASO, TX
	Shipper tendered late - adds one day to transit time	
5:57 pm	Picked up	EL PASO, TX

Shipment Facts

Tracking number	283008718-6	Service	FedEx Freight Economy
Total pieces	3	Total shipment weight	1, 700 lbs / 771.11 kgs



29925 Highway 108  
Cold Springs, CA 95335

URS Group, Inc.  
P. O. Box 302970  
Austin, TX 78720-1088

# Invoice

Date	Invoice #
4/12/2013	941213

		PO #	Terms
			Net 30
Quantity	Description	Rate	Amount
1,332	Processing of MD Sub-Contract # 289508 Proj. # 16170521 From Ft. Bliss	2.50	3,330.00
		Total	\$3,330.00

**Timberline Environmental Services, Inc.**

Office: (209) 965-3118 Fax: (209) 965-4721



## G.6 Soil Sample Collection Field Sheets

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698, 02500

SAMPLE NO. BLISS-A2-SS01-0.5

BORING NO. —

DATE/TIME COLLECTED: 5/7/13 1030

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental 0-0.5

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES

NO

SPLIT SAMPLE NO. —

SAMPLE QC DUPLICATE: YES

NO

DUPLICATE SAMPLE NO. —

MS/MSD REQUESTED: YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>Ziploc bag</u>	<u>N/A</u>	<u>8330B &amp; 6010B</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

## OVA MEASUREMENTS

Background  

Breathing zone  

Boring  

Headspace  

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698.02500  
SAMPLE NO. BLISS-A1-SS01-0.5 BORING NO. —  
DATE/TIME COLLECTED: 5/7/13 1058 PERSONNEL: (b) (6)  
SAMPLE METHOD / DEPTH: Incremental 0-0.5  
SAMPLE MEDIA: SOIL SEDIMENT SLUDGE  
SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. —  
SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO. —  
MS/MSD REQUESTED: YES NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>Ziploc bag</u>	<u>N/A</u>	<u>8330B + 6010B</u>

## OVA MEASUREMENTS

Background    
Breathing zone    
Boring    
Headspace  

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils  
   
   
 

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 .02500

SAMPLE NO. BLWS-B1-SSOI-0.5

BORING NO.       

DATE/TIME COLLECTED: 5/7/13 1125

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental / 0-0.5

SAMPLE MEDIA:

SOIL

SEDIMENT

SLUDGE

SAMPLE QA SPLIT:

YES

NO

SPLIT SAMPLE NO.       

SAMPLE QC DUPLICATE:

YES

NO

DUPLICATE SAMPLE NO.       

MS/MSD REQUESTED:

YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

Ziploc bag

Preservative

N/A

Analysis Requested

8330 B + 6010 B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5

DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698 , 02500

SAMPLE NO. BLISS-B2-SS01-0.5 BORING NO.                     

DATE/TIME COLLECTED: 5/7/13 1150 PERSONNEL (b) (6)

SAMPLE METHOD / DEPTH: Incremental 0-0.5

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. BLISS-B2-SS01-0.5

SAMPLE QC DUPLICATE: Tripluate YES NO DUPLICATE SAMPLE NO. BLISS-B2-SS01-1

MS/MSD REQUESTED: YES NO Tripluate BLISS-B2-SS01-2

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>Ziploc</u>	<u>N/A</u>	<u>8330B &amp; 6010B</u>

## OVA MEASUREMENTS

Background                     

Breathing zone                     

Boring                     

Headspace                     

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698.02500

SAMPLE NO. BLISS-BIPB2-SS01-0.5

BORING NO.                     

DATE/TIME COLLECTED: 5/7/13 1135

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Composite

SAMPLE MEDIA:

SOIL

SEDIMENT

SLUDGE

SAMPLE QA SPLIT:

YES

NO

SPLIT SAMPLE NO. BLISS-BIPB2-SS01-0.5

SAMPLE QC DUPLICATE:

YES

NO

DUPLICATE SAMPLE NO.                     

MS/MSD REQUESTED:

YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

Preservative

Analysis Requested

2000 3202 Jar

N/A

8330 A + 6010 B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5

DESCRIPTION:

Composite  
Incremental sample of surface soils  
at BIP location

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698

SAMPLE NO. BLSS-C3-SS01-0.5

BORING NO.       

DATE/TIME COLLECTED: 5/2/13 1341

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental 0-0.5

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO

SPLIT SAMPLE NO.       

SAMPLE QC DUPLICATE: YES NO

DUPLICATE SAMPLE NO.       

MS/MSD REQUESTED: YES NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

Preservative

Analysis Requested

Ziploc bag

N/A

8330 B+6010B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS



# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 . 02500

SAMPLE NO. BLISS-BIPC7-SS01-0.5

BORING NO. \_\_\_\_\_

DATE/TIME COLLECTED: 5/7/13 1355

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Composite

SAMPLE MEDIA:

(SOIL)

SEDIMENT

SLUDGE

SAMPLE QA SPLIT:

YES

NO

SPLIT SAMPLE NO. \_\_\_\_\_

SAMPLE QC DUPLICATE:

YES

NO

DUPLICATE SAMPLE NO. \_\_\_\_\_

MS/MSD REQUESTED:

YES

NO

BLISS-BIPC10-SS01-0.5

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

32oz Jar

Preservative

N/A

Analysis Requested

8330 A + 6010 B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH:

0-0.5

DESCRIPTION:

Composite  
Incremental sample of surface soils.  
at BIP location

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698 02500

SAMPLE NO. BLISS-C7-SS01-0.5 BORING NO.                     

DATE/TIME COLLECTED: 5/7/13 1415 PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental 0-0.5

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. BLISS-C7-SS01-0.5

SAMPLE QC DUPLICATE: TriPLICATE YES NO DUPLICATE SAMPLE NO. BLISS-C7-SS01-1

MS/MSD REQUESTED: YES NO TriPLICATE BLISS-C7-SS01-2

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>2.010L Bag</u>	<u>N/A</u>	<u>8330 B &amp; 6010B</u>

## OVA MEASUREMENTS

Background                     

Breathing zone                     

Boring                     

Headspace                     

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 .02500

SAMPLE NO. BLISS - C2 - SS01 - 0.5

BORING NO.       

DATE/TIME COLLECTED: 5/7/13 1522

PERSONNEL (b) (6)

SAMPLE METHOD / DEPTH: Incremental 0-0.5

SAMPLE MEDIA: (SOIL) SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES

(NO)

SPLIT SAMPLE NO.       

SAMPLE QC DUPLICATE: YES

(NO)

DUPLICATE SAMPLE NO.       

MS/MSD REQUESTED: YES

(NO)

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

Ziploc Bag

Preservative

N/A

Analysis Requested

8330 B & 6010B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698 .02500

SAMPLE NO. BLISS-CS-SS01-0.5 BORING NO.                     

DATE/TIME COLLECTED: 5/7/13 1541 PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental 0-0.5

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO.                     

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO.                     

MS/MSD REQUESTED: YES NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>Ziploc bag</u>	<u>N/A</u>	<u>8330B + 6010B</u>

## OVA MEASUREMENTS

Background                     

Breathing zone                     

Boring                     

Headspace                     

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698

SAMPLE NO. B455-BIPCI-SSOI-0.5 BORING NO.                     

DATE/TIME COLLECTED: 5/2/13 1606 PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Composite 0-0.5

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO.                     

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO.                     

MS/MSD REQUESTED: YES NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>32oz Jar</u>	<u>N/A</u>	<u>8330 A + 6010 B</u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>

## OVA MEASUREMENTS

Background                     

Breathing zone                     

Boring                     

Headspace                     

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Composite sample of surface soils at

BIP location.

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 , 02500

SAMPLE NO. BLISS - C1 - SS01 - 0.5

BORING NO.                     

DATE/TIME COLLECTED: 5/2/13 1621

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES

NO

SPLIT SAMPLE NO.                     

SAMPLE QC DUPLICATE: YES

NO

DUPLICATE SAMPLE NO.                     

MS/MSD REQUESTED: YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

Preservative

Analysis Requested

Ziploc bag

N/A

8330B + 6010B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698 ,02500  
SAMPLE NO. BLISS- C4-SS01-0.5 BORING NO.                       
DATE/TIME COLLECTED: 5/2/13 1641 PERSONNEL: (b) (6)  
SAMPLE METHOD / DEPTH: Incremental 0-0.5  
SAMPLE MEDIA: SOIL SEDIMENT SLUDGE  
SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO.                       
SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO.                       
MS/MSD REQUESTED: YES NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>Ziploc Bag</u>	<u>N/A</u>	<u>8330B + 610B</u>

## OVA MEASUREMENTS

Background                       
Breathing zone                       
Boring                       
Headspace                     

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils  
   
   
 

## GENERAL COMMENTS



# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 02500

SAMPLE NO. BLISS-22-5501-0.5

BORING NO. \_\_\_\_\_

DATE/TIME COLLECTED: 5/8/13 902

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental

SAMPLE MEDIA:

SOIL

SEDIMENT

SLUDGE

SAMPLE QA SPLIT:

YES

NO

SPLIT SAMPLE NO. \_\_\_\_\_

SAMPLE QC DUPLICATE:

YES

NO

DUPLICATE SAMPLE NO. \_\_\_\_\_

MS/MSD REQUESTED:

YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

Ziploc bag

Preservative

N/A

Analysis Requested

8330B + 6010B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5

DESCRIPTION: incremental sample of surface soil

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 02500

SAMPLE NO. BLISS-F1-SS01-0.5

BORING NO. (b) (6)

DATE/TIME COLLECTED: 5/8/13 940

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental

SAMPLE MEDIA:

SOIL

SEDIMENT

SLUDGE

SAMPLE QA SPLIT: YES

NO

SPLIT SAMPLE NO. \_\_\_\_\_

SAMPLE QC DUPLICATE: YES

NO

DUPLICATE SAMPLE NO. \_\_\_\_\_

MS/MSD REQUESTED: YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

2.0100 Bag

Preservative

N/A

Analysis Requested

8330B & 6010B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soil

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698.02500

SAMPLE NO. BLISS-J1-SSA-0.5

BORING NO. (b) (6)

DATE/TIME COLLECTED: 5/8/13 1010

PERSONNEL: [REDACTED]

SAMPLE METHOD / DEPTH: Incremental

SAMPLE MEDIA:

SOIL

SEDIMENT

SLUDGE

SAMPLE QA SPLIT: YES

NO

SPLIT SAMPLE NO. \_\_\_\_\_

SAMPLE QC DUPLICATE: YES

NO

DUPLICATE SAMPLE NO. \_\_\_\_\_

MS/MSD REQUESTED: YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

Ziploc Bag

Preservative

N/A

Analysis Requested

8330 B & 6010 B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5

DESCRIPTION:

Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 .02500

SAMPLE NO. B455-D5-SS01-0.5

BORING NO.                     

DATE/TIME COLLECTED: 5/8/13 1135

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental

SAMPLE MEDIA:

SOIL

SEDIMENT

SLUDGE

SAMPLE QA SPLIT:

YES

NO

SPLIT SAMPLE NO.                     

SAMPLE QC DUPLICATE:

YES

NO

DUPLICATE SAMPLE NO.                     

MS/MSD REQUESTED:

YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

2.0loc Bag

Preservative

N/A

Analysis Requested

8330B & 6010B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5

DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698 . 07500  
SAMPLE NO. BLISS-01-SS01-0.5 BORING NO. (b) (6)  
DATE/TIME COLLECTED: 5/8/13 1211 PERSONNEL: (b) (6)  
SAMPLE METHOD / DEPTH: Incremental  
SAMPLE MEDIA: SOIL SEDIMENT SLUDGE  
SAMPLE QA SPLIT: YES NO  
SAMPLE QC DUPLICATE: YES NO  
MS/MSD REQUESTED: YES NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>Ziptex Bag</u>	<u>N/A</u>	<u>8330B &amp; 6010B</u>

## OVA MEASUREMENTS

Background	<u>N/A</u>
Breathing zone	
Boring	
Headspace	

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils


## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 , 02500

SAMPLE NO. BLISS-BIPD4-SS01-0.5

BORING NO. (b) (6)

DATE/TIME COLLECTED: 5/8/13 1220

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Composite

SAMPLE MEDIA:

SOIL

SEDIMENT

SLUDGE

SAMPLE QA SPLIT: YES

NO

SPLIT SAMPLE NO. \_\_\_\_\_

SAMPLE QC DUPLICATE: YES

NO

DUPLICATE SAMPLE NO. \_\_\_\_\_

MS/MSD REQUESTED: YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

32oz Sur

Preservative

N/A

Analysis Requested

8330A & 6010B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5

DESCRIPTION: Composite sample of BIP location

in grid D4

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698 , 02508

SAMPLE NO. B455-D4-SS01-0.5 BORING NO.                     

DATE/TIME COLLECTED: 5/8/13 1245 PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: incremental

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO

SAMPLE QC DUPLICATE: YES NO

MS/MSD REQUESTED: YES NO

SPLIT SAMPLE NO.                     

DUPLICATE SAMPLE NO.                     

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>Ziploc Bag</u>	<u>N/A</u>	<u>8330B &amp; 6012B</u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>

## OVA MEASUREMENTS

Background                     

Breathing zone                     

Boring                     

Headspace                     

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soil

                     sample

## GENERAL COMMENTS



# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A

PROJECT NO. 16170698 , 02500

SAMPLE NO. BLISS-07-5501-0.5

BORING NO.                     

DATE/TIME COLLECTED: 5/8/13 1340

PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental

SAMPLE MEDIA:

SOIL

SEDIMENT

SLUDGE

SAMPLE QA SPLIT:

YES

NO

SPLIT SAMPLE NO.                     

SAMPLE QC DUPLICATE:

YES

NO

DUPLICATE SAMPLE NO.                     

MS/MSD REQUESTED:

YES

NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container

Ziploc Bag

Preservative

N/A

Analysis Requested

8330B + 6010B

## OVA MEASUREMENTS

Background

Breathing zone

Boring

Headspace

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5

DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

# SOIL SAMPLE COLLECTION FIELD SHEET

## GENERAL INFORMATION

SITE NAME: Former Maneuver Area A PROJECT NO. 16170698 . 02500

SAMPLE NO. BLISS - D9 - SSOL - 0.5 BORING NO.                     

DATE/TIME COLLECTED: 5/8/13 1405 PERSONNEL: (b) (6)

SAMPLE METHOD / DEPTH: Incremental

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO.                     

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO.                     

MS/MSD REQUESTED: YES NO

## SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
<u>2x100c Bag</u>	<u>N/A</u>	<u>8330B + 6010B</u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>

## OVA MEASUREMENTS

Background                     

Breathing zone                     

Boring                     

Headspace                     

N/A

## SAMPLE DESCRIPTION

DEPTH: 0-0.5 DESCRIPTION: Incremental sample of surface soils

## GENERAL COMMENTS

G.7 CoCs

Custody.frm/jdg 3-09-92



Custody frm/jdg 3-09-92

Custody.frm/jdg 3-09-92



005417 127872



## G.8 DGM Quality Control Review Forms



**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0131

**Date Collected:** January 31, 2013

**Description:** Team 2 IVS North data

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☐ Yes ☐ No ☒ N/A

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☐ Yes ☐ No ☒ N/A

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction

☒ Yes ☐ No



Latency correction of 0.27 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☐ Yes ☐ No ☒ N/A

Selected Target Agree with List

☐ Yes ☐ No ☒ N/A

Unique Target ID

☐ Yes ☐ No ☒ N/A

Blind Seed Items Targeted Correctly

☐ Yes ☐ No ☒ N/A

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Southern IVS establishment data only, no production data.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0204  
**Date Collected:** February 4, 2013  
**Description:** Team 1 data

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Single 7 mv noise spike on Ch1 in cable shake test

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.91% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.28 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

72 targets picked along transects in Area C

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie C\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 019 detected and properly targeted as Target C\_0043

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

Sign

Date:

(b) (6)



**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0204

**Date Collected:** February 4, 2013

**Description:** Team 1 data from IVS North, Area A, and Area B

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.3 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

0 targets picked along transects in Area A

7 targets picked along transects in Area B

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie B\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 010 detected and properly targeted as Target B\_0012

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

First production file increasingly noisy towards end of track, likely due to declining battery strength – recollect data after Fid 2440, when noise starts

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0205

**Date Collected:** February 5, 2013

**Description:** Team 1 data from IVS North and Area C

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Single 8 mv noise spike on Ch1 in PM static test

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.97% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.28 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

84 targets picked along transects in Area C

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie C\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 012 detected and properly targeted as Target C\_0085

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0205

**Date Collected:** February 5, 2013

**Description:** Team 2 data from IVS North and Area C

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Two negative spikes visible in PM IVS data. Production data does not exhibit this characteristic.

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.97% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.32 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

85 targets picked along transects in Area C

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie C\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 019 detected and properly targeted as Target C\_0043

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

### **Summary**

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0206

**Date Collected:** February 6, 2013

**Description:** Team 1 data from IVS North and Area C

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Some sinusoidal noise seen in AM static test, but within specifications

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.28 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

2 targets picked along transects in Area C

57 targets picked along transects in Area D

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie D\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 007 detected and properly targeted as Target D\_0001

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0206

**Date Collected:** February 6, 2013

**Description:** Team 2 data from IVS North and Area D

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Some sinusoidal noise seen in static tests, but within specifications

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction





☒ Yes ☐ No

Latency correction of 0.35 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

57 targets picked along transects in Area D

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie D\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 018 detected and properly targeted as Target D\_0031

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

### **Summary**

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0207

**Date Collected:** February 7, 2013

**Description:** Team 1 data from IVS North, Area C, and Area D

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.27 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

85 targets picked along transects in Area D

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie D\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 023 detected and properly targeted as Target D\_0069

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0207

**Date Collected:** February 7, 2013

**Description:** Team 2 data from IVS North and Area D

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.35 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

126 targets picked along transects in Area D

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie D\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 015 detected and properly targeted as Target D\_0102

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

File b0207d4 was noisy towards end of track. Recollect after 12400 fiducial mark.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0208

**Date Collected:** February 8, 2013

**Description:** Team 1 IVS South data

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☐ Yes ☐ No ☒ N/A

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☐ Yes ☐ No ☒ N/A

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction

☒ Yes ☐ No



Latency correction of 0.27 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☐ Yes ☐ No ☒ N/A

Selected Target Agree with List

☐ Yes ☐ No ☒ N/A

Unique Target ID

☐ Yes ☐ No ☒ N/A

Blind Seed Items Targeted Correctly

☐ Yes ☐ No ☒ N/A

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Southern IVS establishment data only, no production data.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0211

**Date Collected:** February 11, 2013

**Description:** Team 1 data from IVS South, Area F, and Area L

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.95% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.27 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

211 targets picked along transects in Area F

25 targets picked along transects in Area L

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie F\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 031 detected and properly targeted as Target F\_0080

Seed 036 detected and properly targeted as Target F\_0002

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

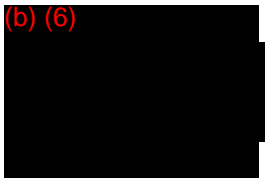
☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

Signature

(b) (6)





(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0211

**Date Collected:** February 11, 2013

**Description:** Team 2 data from IVS South, Area G, and Area I

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.38 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

7 targets picked along transects in Area G

28 targets picked along transects in Area I

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie G\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 035 detected and properly targeted as Target G\_0004

Seed 033 detected and properly targeted as Target I\_0024

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

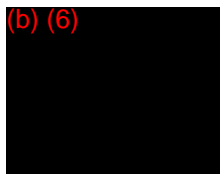
☒ Yes ☐ No

## Summary

B0211I2 noisy towards end of track. Recollect after 4522 fiducial mark.

Signature:

(b) (6)





(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0212

**Date Collected:** February 12, 2013

**Description:** Team 1 data from IVS South and Area J

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.97% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.27 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

50 targets picked along transects in Area J

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie J\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 041 detected and properly targeted as Target J\_0070

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0212

**Date Collected:** February 12, 2013

**Description:** Team 2 data from IVS South and Area K

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.97% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.34 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

38 targets picked along transects in Area K

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie K\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 043 detected and properly targeted as Target K\_0047

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

File B0212K3 needs to be recollected due to incoherent noise. Noise not found in other production files or test data for the day.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0213

**Date Collected:** February 13, 2013

**Description:** Team 1 data from IVS South, Area H, and Area J

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.97% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.27 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

6 targets picked along transects in Area H

47 targets picked along transects in Area J

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie J\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 037 detected and properly targeted as Target H\_0006

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0213

**Date Collected:** February 13, 2013

**Description:** Team 2 data from IVS South, Area E, and Area K

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.31 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

8 targets picked along transects in Area E

3 targets picked along transects in Area K

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie E\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 002 detected and properly targeted as Target E\_0009

Seed 044 detected and properly targeted as Target K\_0051

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

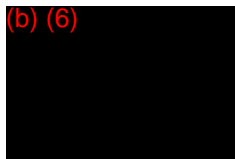
☒ Yes ☐ No

## Summary

File B0213K1 noisy towards end of track. Recollect after fiducial 5400.

Signature:

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** a0214

**Date Collected:** February 14, 2013

**Description:** Team 1 data from IVS North and Area E

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction





☒ Yes ☐ No

Latency correction of 0.26 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

4 targets picked along transects in Area E

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie E\_0001)

Blind Seed Items Targeted Correctly

☐ Yes ☐ No ☒ N/A

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0214

**Date Collected:** February 14, 2013

**Description:** Team 2 data from IVS North and Area E

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.3 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

0 targets picked along transects in Area E

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie E\_0001)

Blind Seed Items Targeted Correctly

☐ Yes ☐ No ☒ N/A

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0219

**Date Collected:** February 19, 2013

**Description:** Team 2 data from IVS North and Area A

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

6 mV noise spike on PM background file.

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.32 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

16 targets picked along transects in Area A

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie A\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 011 detected and properly targeted as Target A\_0039

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0220

**Date Collected:** February 20, 2013

**Description:** Team 2 data from IVS North and Area A

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

5 mV noise spike on PM background file.

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.33 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

33 targets picked along transects in Area A

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie A\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 001 detected and properly targeted as Target A\_0032

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

File B0220A2 noisy towards end of track. Recollect after fiducial 10500.

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0222

**Date Collected:** February 22, 2013

**Description:** Team 2 data from IVS North, Area A, and Area D

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

5 mV noise spike on AM background file.

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate

Across Track Sampling

☐ Yes ☐ No ☒ N/A

N/A for transect data.

Latency/Lag Correction





☒ Yes ☐ No

Latency correction of 0.33 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

1 target picked along transects in Area A

34 targets picked along transects in Area D

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention is Area\_#### (ie A\_0001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 023 detected and properly targeted as Target D\_0069

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

File B0222D2 noisy towards end of track. No data needs to be recollected.

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0306

**Date Collected:** March 6, 2013

**Description:** Team 2 data from IVS North and Grid D3 and Grid D4

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Noise spike of 4.5 mV on AM cable shake test

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate for Grid D3

99.99% downline coverage at 25 cm sample rate for Grid D4

Across Track Sampling

☒ Yes ☐ No ☐ N/A

84.24% across track at 75 cm sample rate for Grid D3 due to obstructions in the grid

95.01% across track at 75 cm sample rate for Grid D4 due to obstructions in the grid



#### Latency/Lag Correction

☒ Yes ☐ No

Latency correction of 0.35 used

#### Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

#### Anomaly Selection

☒ Yes ☐ No

41 targets picked in Grid D3

13 targets picked in Grid D4

#### Selected Target Agree with List

☒ Yes ☐ No

#### Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie D\_1001)

#### Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 102 detected and properly targeted as Target D\_3020

Seed 104 detected and properly targeted as Target D\_4001

#### Positioning Correct

☒ Yes ☐ No

#### QC Data Reprocessing Completed

☒ Yes ☐ No

### Summary

Data meets all requirements of the work plan.



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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0307

**Date Collected:** March 7, 2013

**Description:** Team 2 data from IVS North and Area C

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate for Grid C1

99.99% downline coverage at 25 cm sample rate for Grid C2

Across Track Sampling

☒ Yes ☐ No ☐ N/A

89.41% across track at 75 cm sample rate for Grid C1 due to obstructions in the grid

93.41% across track at 75 cm sample rate for Grid C1 due to obstructions in the grid



#### Latency/Lag Correction

☒ Yes ☐ No

Latency correction of 0.36 used

#### Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

#### Anomaly Selection

☒ Yes ☐ No

5 targets picked along transects in Area C

28 targets picked in Grid C1

53 targets picked in Grid C2

#### Selected Target Agree with List

☒ Yes ☐ No

#### Unique Target ID

☒ Yes ☐ No

Target naming convention for transects is Area\_#### (ie C\_0001)

Target naming convention for grids is Area\_GRID### (ie C\_1001)

#### Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 016 detected and properly targeted as Target C\_0228

Seed 107 detected and properly targeted as Target C\_1021

Seed 105 detected and properly targeted as Target C\_2026

#### Positioning Correct

☒ Yes ☐ No

#### QC Data Reprocessing Completed

☒ Yes ☐ No

### Summary

Data meets all requirements of the work plan.



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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0308

**Date Collected:** March 8, 2013

**Description:** Team 2 data from IVS North and Grid D1 and Grid D2

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate for Grid D1

99.99% downline coverage at 25 cm sample rate for Grid D2

Across Track Sampling

☒ Yes ☐ No ☐ N/A

94.11% across track at 75 cm sample rate for Grid D1 due to obstructions in the grid

92.16% across track at 75 cm sample rate for Grid D2 due to obstructions in the grid





#### Latency/Lag Correction

☒ Yes ☐ No

Latency correction of 0.33 used

#### Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

#### Anomaly Selection

☒ Yes ☐ No

4 targets picked in Grid D1

7 targets picked in Grid D2

#### Selected Target Agree with List

☒ Yes ☐ No

#### Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie D\_1001)

#### Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 103 detected and properly targeted as Target D\_1003

Seed 101 detected and properly targeted as Target D\_2002

#### Positioning Correct

☒ Yes ☐ No

#### QC Data Reprocessing Completed

☒ Yes ☐ No

#### Summary

Data meets all requirements of the work plan.

Signature:

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0311

**Date Collected:** March 11, 2013

**Description:** Team 2 data from IVS South and Grid F1, Grid G1, Grid J1, Grid J2, and Grid L1

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate for Grid F1

99.98% downline coverage at 25 cm sample rate for Grid G2

99.99% downline coverage at 25 cm sample rate for Grid J1

99.93% downline coverage at 25 cm sample rate for Grid J2

99.99% downline coverage at 25 cm sample rate for Grid L1

Across Track Sampling

☒ Yes ☐ No ☐ N/A



95.35% across track at 75 cm sample rate for Grid F1 due to obstructions in the grid  
93.28% across track at 75 cm sample rate for Grid G1 due to obstructions in the grid  
69.82% across track at 75 cm sample rate for Grid J1 due to obstructions in the grid  
93.51% across track at 75 cm sample rate for Grid J2 due to obstructions in the grid  
91.00% across track at 75 cm sample rate for Grid L1 due to obstructions in the grid

#### Latency/Lag Correction

☒ Yes ☐ No

Latency correction of 0.32 used

#### Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

#### Anomaly Selection

☒ Yes ☐ No

9 targets picked in Grid F1

7 targets picked in Grid G1

4 targets picked in Grid J1

3 targets picked in Grid J2

7 targets picked in Grid L1

#### Selected Target Agree with List

☒ Yes ☐ No

#### Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie F\_1001)

#### Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 110 detected and properly targeted as Target F\_1005

Seed 111 detected and properly targeted as Target G\_1003

Seed 108 detected and properly targeted as Target J\_1002

Seed 109 detected and properly targeted as Target J\_2001

Seed 112 detected and properly targeted as Target L\_1004

#### Positioning Correct

☒ Yes ☐ No

#### QC Data Reprocessing Completed



☒ Yes ☐ No

### Summary

Data meets all requirements of the work plan.

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0312

**Date Collected:** March 12, 2013

**Description:** Team 2 data from IVS North and Grid B1 and Grid B2

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate for Grid B1

99.98% downline coverage at 25 cm sample rate for Grid B2

Across Track Sampling

☒ Yes ☐ No ☐ N/A

93.13% across track at 75 cm sample rate for Grid B1 due to obstructions in the grid

89.78% across track at 75 cm sample rate for Grid B2 due to obstructions in the grid



Latency/Lag Correction

☒ Yes ☐ No

Latency correction of 0.32 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

28 targets picked in Grid B1

12 targets picked in Grid B2

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie B\_1001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 113 detected and properly targeted as Target B\_2006

Seed 114 detected and properly targeted as Target B\_2007

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

**Summary**

Data meets all requirements of the work plan.

Signature:

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0314

**Date Collected:** March 14, 2013

**Description:** Team 2 data from IVS North and Grid A1 and Grid A2

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☐ Yes ☒ No

Data for Grid A2 not able to be converted. Must be recollected.

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate for Grid A1

Across Track Sampling

☒ Yes ☐ No ☐ N/A

94.49% across track at 75 cm sample rate for Grid A1 due to obstructions in the grid

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.32 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

1 target picked in Grid A1

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie A\_1001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 115 detected and properly targeted as Target A\_1001

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data for Grid A2 not able to be converted. Must be recollected.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0315

**Date Collected:** March 15, 2013

**Description:** Team 2 data from IVS North and Grid D6, Grid D7, and Grid D9

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate for Grid D6

99.99% downline coverage at 25 cm sample rate for Grid D7

99.98% downline coverage at 25 cm sample rate for Grid D9

Across Track Sampling

☒ Yes ☐ No ☐ N/A

85.87% across track at 75 cm sample rate for Grid D6 due to obstructions in the grid

92.61% across track at 75 cm sample rate for Grid D7 due to obstructions in the grid



92.43% across track at 75 cm sample rate for Grid D9 due to obstructions in the grid

Latency/Lag Correction

☒ Yes ☐ No

Latency correction of 0.33 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

27 targets picked in Grid D6

13 targets picked in Grid D7

21 targets picked in Grid D9

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie D\_1001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 120 detected and properly targeted as Target D\_6020

Seed 122 detected and properly targeted as Target D\_7001

Seed 124 detected and properly targeted as Target D\_9017

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

**URS**

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0318

**Date Collected:** March 18, 2013

**Description:** Team 2 data from IVS North and Grid C4, Grid C5, Grid C6, Grid C7, and Grid C8

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.98% downline coverage at 25 cm sample rate for Grid C4

99.99% downline coverage at 25 cm sample rate for Grid C5

99.98% downline coverage at 25 cm sample rate for Grid C6

99.99% downline coverage at 25 cm sample rate for Grid C7

99.98% downline coverage at 25 cm sample rate for Grid C8

Across Track Sampling

☒ Yes ☐ No ☐ N/A



89.04% across track at 75 cm sample rate for Grid D6 due to obstructions in the grid  
91.87% across track at 75 cm sample rate for Grid D7 due to obstructions in the grid  
94.44% across track at 75 cm sample rate for Grid D9 due to obstructions in the grid  
93.30% across track at 75 cm sample rate for Grid D7 due to obstructions in the grid  
91.41% across track at 75 cm sample rate for Grid D9 due to obstructions in the grid

#### Latency/Lag Correction

☒ Yes ☐ No

Latency correction of 0.33 used

#### Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

#### Anomaly Selection

☒ Yes ☐ No

53 targets picked in Grid C4

7 targets picked in Grid C5

36 targets picked in Grid C6

56 targets picked in Grid C7

35 targets picked in Grid C8

#### Selected Target Agree with List

☒ Yes ☐ No

#### Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie D\_1001)

#### Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 125 detected and properly targeted as Target C\_4014

Seed 126 detected and properly targeted as Target C\_5002

Seed 127 detected and properly targeted as Target C\_6012

Seed 128 detected and properly targeted as Target C\_7014

Seed 129 detected and properly targeted as Target C\_8023

#### Positioning Correct

☒ Yes ☐ No

#### QC Data Reprocessing Completed



☒ Yes ☐ No

### Summary

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0319

**Date Collected:** March 19, 2013

**Description:** Team 2 data from IVS North and Grid B1, Grid B2, Grid D5, and Grid D8

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.95% downline coverage at 25 cm sample rate for Grid B1

99.99% downline coverage at 25 cm sample rate for Grid B2

99.98% downline coverage at 25 cm sample rate for Grid D5

99.97% downline coverage at 25 cm sample rate for Grid D8

Across Track Sampling

☒ Yes ☐ No ☐ N/A

89.04% across track at 75 cm sample rate for Grid D6 due to obstructions in the grid



94.21% across track at 75 cm sample rate for Grid D7 due to obstructions in the grid  
95.76% across track at 75 cm sample rate for Grid D9 due to obstructions in the grid  
93.95% across track at 75 cm sample rate for Grid D7 due to obstructions in the grid  
93.13% across track at 75 cm sample rate for Grid D9 due to obstructions in the grid

#### Latency/Lag Correction

☒ Yes ☐ No

Latency correction of 0.33 used

#### Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

#### Anomaly Selection

☒ Yes ☐ No

30 targets picked in Grid B1

11 targets picked in Grid B2

16 targets picked in Grid D5

21 targets picked in Grid D8

#### Selected Target Agree with List

☒ Yes ☐ No

#### Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie D\_1001)

#### Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 130 detected and properly targeted as Target B\_1025

Seed 113 detected and properly targeted as Target B\_2006

Seed 114 detected and properly targeted as Target B\_2007

Seed 123 detected and properly targeted as Target D\_5002

Seed 121 detected and properly targeted as Target D\_8013

#### Positioning Correct

☒ Yes ☐ No

#### QC Data Reprocessing Completed

☒ Yes ☐ No



## Summary

Grid B2 recollected due to suspect positioning in original data from 0312.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0320

**Date Collected:** March 20, 2013

**Description:** Team 2 data from IVS North and Grid A2

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate for Grid A2

Across Track Sampling

☒ Yes ☐ No ☐ N/A

91.27% across track at 75 cm sample rate for Grid A2 due to obstructions in the grid

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.33 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

14 targets picked in Grid A2

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie A\_1001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 116 detected and properly targeted as Target A\_2012

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

(b) (6)

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**Fort Bliss Remedial Investigation**  
**Site Name: Former Maneuver Area A**  
**Geophysical Data**  
**Quality Control Review**

**Geophysical Data Set:** b0320

**Date Collected:** March 20, 2013

**Description:** Team 2 data from IVS South and Grid L2

Raw Data Set Complete

☒ Yes ☐ No

Field Notes/Production Log

☒ Yes ☐ No

Processed Data File Reviewed

☒ Yes ☐ No

File Format is Acceptable

☒ Yes ☐ No

Static and Reference Objects Checks

☒ Yes ☐ No

Target Map

☒ Yes ☐ No

Noise Evaluation

☒ Yes ☐ No

Along Track Sampling

☒ Yes ☐ No

99.99% downline coverage at 25 cm sample rate for Grid L2

Across Track Sampling

☒ Yes ☐ No ☐ N/A

91.27% across track at 75 cm sample rate for Grid L2 due to obstructions in the grid

Latency/Lag Correction



☒ Yes ☐ No

Latency correction of 0.34 used

Data Leveling

☒ Yes ☐ No

Data was leveled using 100 fiducial width demedian filter.

Anomaly Selection

☒ Yes ☐ No

4 targets picked in Grid L2

Selected Target Agree with List

☒ Yes ☐ No

Unique Target ID

☒ Yes ☐ No

Target naming convention for grids is Area\_GRID### (ie L\_1001)

Blind Seed Items Targeted Correctly

☒ Yes ☐ No ☐ N/A

Seed 135 detected and properly targeted as Target L\_2002

Positioning Correct

☒ Yes ☐ No

QC Data Reprocessing Completed

☒ Yes ☐ No

## Summary

Data meets all requirements of the work plan.

(b) (6)

A large black rectangular redaction box covers the majority of the page content below the summary section. The text "(b) (6)" is printed in red at the top left corner of this redacted area.







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# Explosives Site Plan

REMEDIAL INVESTIGATION

FORMER MANEUVER AREA A  
FORT BLISS  
EL PASO, TEXAS

Contract Number: W912BV-11-D-0016

November 2012

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Prepared by  
URS GROUP, INC.  
for  
**UNITED STATES ARMY CORPS OF ENGINEERS**  
Tulsa District  
1645 S 101<sup>st</sup> East Avenue  
Tulsa, OK 74128

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(FTBLS-002-R-01)

### Appendix B – Fragmentation Data Review Forms

4.2 in M3A1 Mortar

4.2 in M329 (With Supplementary Charge) Mortar

### 1.0 SITE

- a. Name: Former Maneuver Area A Munitions Response Site (MRS)
- b. State: Fort Bliss, Texas

### 2.0 ANTICIPATED START DATE

- a. Start: November 26, 2012.

### 3.0 PURPOSE

- a. MRS RI and characterization to collect the information needed to design the required munitions response and to prepare, as appropriate, an ESS for the selected response.

### 4.0 SITE BACKGROUND AND CURRENT CONDITIONS

- a. The Former Maneuver Area A MRS is part of the Former Maneuver Areas 1 and 2 Munitions Response Area (MRA) at Fort Bliss (**Figure 1-1**). The MRS is a transferred site encompassing 24,459 acres and is located east of the Fort Bliss cantonment area and adjacent to the southeastern installation boundary (**Figure 1-2**). The MRS is located in the Basin and Range physiographic province which is characterized by isolated, nearly parallel mountain ranges separated by broad, flat basins. The Hueco Mountains are located in the eastern portion of the Former Maneuver Area A MRS with Hueco Tanks State Park and Historic Site located west of the Hueco Mountains. Commercial and residential properties comprise a majority of the MRS. None of the land associated with Former Maneuver Area A is currently owned or used by Fort Bliss.
- b. Former activities at the MRS included anti-aircraft emplacement training with Browning M2 .50 caliber machine guns, infiltration courses, bivouacs, maneuver grounds, small arms training (including M1 .30 caliber rifle), and the use of pyrotechnics during training.
- c. Previous investigations for Former Maneuver Areas 1 and 2 include a Historical Records Review (HRR) (TLI Solutions 2009) and Site Inspection (SI) (TLI Solutions 2011). The HRR included a review of available documentation of the MRA. The HRR indicated that a “dud clearance” was completed in 1946 over 1,280 acres, and several additional “hot spot” removal actions were completed in 1992 and 1993. The HRR also recommended modifying the MRA boundary from 73,538.2 acres to 72,520.82 acres. The SI included a visual survey of 132.5 linear miles and collection of 16 soil samples, primarily in 12 of 16 identified areas of interest. Four areas were not accessible. No munitions constituents (MC) were identified at concentrations exceeding the screening levels, and no MEC was found during the visual surveys. Munitions debris (MD) were identified in two areas of interest and included:
  - Possible M18 smoke grenade fuze (one)

- M2 4.2-inch mortar shells (thirteen)
  - High-explosive (HE) detonation fragment (one)
  - Other small arms-related material was identified in five areas of interest.
- d. The SI recommendations included the creation of two MRSs within the MRA. The Former Maneuver Area A MRS (FTBLS-002-R-1) was recommended for further action. This MRS consisted of 24,459 acres. The Former Maneuver Area B MRS (FTBLS-002-R-2) is 48,062 acres and was recommended for No further Action (NFA).

## **5.0 EXECUTING AGENCIES**

- a. Fort Bliss
- b. United States Army Corps of Engineers (USACE) - Tulsa District
- c. Texas Commission on Environmental Quality (TCEQ)

## **6.0 SCOPE OF INVESTIGATION/CHARACTERIZATION ACTION**

- a. A surface and subsurface (to depth of detection) investigative action is required to fully characterize the site to determine the nature, extent and boundaries of contamination, and identify possible future remedial actions.
- b. The selected technique for conducting the investigation for contaminants is a surface sweep and manual intrusive investigation of potential MEC and MD to depth of detection.
- c. The investigative action will identify possible future remedial action areas for this site.
- d. MC soil sampling will be performed using anomaly avoidance.
- e. No mechanized MEC activities will be performed during this RI.
- f. **Table 6-1** identifies the area to be investigated within this project location.

**TABLE 6-1  
AREA OF INVESTIGATION**

<b>Area</b>	<b>Type of Investigation</b>	<b>Total Acreage of Site</b>	<b>Acreage to be Investigated</b>
Former Maneuver Area A MRS (FTBLS-002-R-01)	Surface and Subsurface Remedial Investigation	24,459	465

## 7.0 SAFETY CRITERIA

- a. The munition with the greatest fragmentation distance (MGFD) at the site is identified in **Table 7-1**. The MGFD was chosen for the MRS in relation to all available historical information of findings during previous investigations or removals. During the course of this investigation, if a MEC item with a greater fragmentation distance is encountered, the minimum separation distance (MSD) will be adjusted in accordance with Department of Defense Explosives Safety Board (DDESB) Technical Paper 16, operations will continue, and an amendment to this Explosives Site Plan (ESP) submitted expeditiously for approval. Q-D arcs will be adjusted accordingly.
- b. See Appendix B for Fragmentation Data Review Forms.
- c. See **Table 7-1** for MSDs. Quantity-Distance (Q-D) arcs are shown in Appendix A on **Figure 1-3**.
- d. Any occupied buildings or public roadways/waterways in the MSD areas during MEC operations will be evacuated and/or roadways/waterways blocked to prevent non-essential personnel from entering during the conduct of MEC operations.
- e. All Material Potentially Presenting an Explosive Hazard (MPPEH) will be processed in accordance with (IAW) Department of Defense Instruction (DoDI) 4140.62 and Engineering Manual (EM) 1110-1-4009. All MPPEH will be assessed and its explosives safety status determined and documented prior to transfer within the DoD or release from DoD control. Prior to release to the public, MPPEH will be documented by authorized and technically qualified personnel as Material Documented as Safe (MDAS) after a 100% inspection and an independent 100% re-inspection to determine that it is safe from an explosives safety perspective.

**TABLE 7-1**  
**MINIMUM SEPARATION DISTANCES**

MRS Name or Other Designator	MGFD	Minimum Separation Distance (feet) <sup>1</sup>				
		For Unintentional Detonations		For Intentional Detonations		
		Team Separation Distance (K40)	Hazardous Fragment Distance	Without Engineering Controls (MFD-H)	Using Single Sandbag Mitigation	Using Water Mitigation
Former Maneuver Area A MRS (FTBLS-002-R-01)	4.2 inch M3A1 mortar	81	316	1670	220 <sup>2</sup>	275 <sup>3</sup>

Notes:

<sup>1</sup> See **Appendix B** for fragmentation data review forms documenting MSD.

<sup>2</sup>MSD based on the 4.2 inch M329 mortar (With Supplementary Charge).

<sup>3</sup>MSD using a 1,100 gallon tank as the water containment system.

## **8.0 METHODS OF DISPOSAL**

- a. If disposal activities are required, they will be performed by qualified UXO personnel within the MRS. The MSDs for intentional detonations are shown in **Table 7-1** and Q-D Arcs are shown on **Figure 1-3**.
- b. Sandbags (HNC-ED-CS-S-98-7 Amendment 1, HNC Safety Advisory dated 7 November 2011, and the DDESB Memorandum “Clarifications Regarding Use of Sandbags for Mitigation of Fragmentation and Blast Effects due to Intentional Detonation of Munitions”, Nov. 29 2010) or water mitigation (HNC-ED-CS-S-00-3) may be used to reduce the intentional detonation MSD as shown in **Table 7-1**. Tamping (single or multiple items) may be used in accordance with DDESB Technical Paper 16 and the Buried Explosion Module.
- c. The MGFD for the Former Maneuver Area A MRS is shown in **Table 7-1**. Items with smaller fragmentation distances may be found. Demolition of these items may be done using the item-specific minimum separation distances and engineering controls in accordance with DDESB Technical Paper 16 Fragmentation Database. For items not in the DDESB Technical Paper 16 Fragmentation Database, the maximum fragment distance may be calculated IAW the generic equations in DDESB Technical Paper 16.
- d. On-call explosives delivery will be used for any MEC items recovered during operations. Explosives will be provided by a local vendor on an as-needed basis. MEC will be marked and guarded, if necessary, until disposal is accomplished.
- e. All explosive operations will follow the procedures outlined in Technical Manual (TM) 60A-1-1-31 and EM 385-1-97, Explosives Safety and Health Requirements Manual, demolition operations will be performed daily or items properly guarded until disposal is accomplished.
- f. Collection points are those areas used to temporarily accumulate MEC determined acceptable to move by the senior unexploded ordnance supervisor (SUXOS) and unexploded ordnance safety officer (UXOSO) pending destruction at the end of the day using consolidated shots. MEC items at collection points must be laid out as shown in “Procedures for Demolition of Multiple Rounds (Consolidated Shots) on Ordnance and Explosives (OE) Sites”. The maximum net explosive weight (NEW) at a collection point will be limited such that the K40 overpressure distance for the total NEW does not exceed the hazardous fragment distance (HFD) for the area. Consolidating multiple MEC may be anticipated for this project.
- g. If determined acceptable to move by the SUXOS and UXOSO consolidating multiple MEC may be anticipated for this project, United States Army Engineering and Support Center, Huntsville (USAESCH) publication “Procedures for Demolition of Multiple Rounds (Consolidated Shots) on Ordnance and Explosives (OE) Sites”, dated March 2000 will be used and a copy of this report will be available on site. The maximum NEW for a consolidated shot will be limited such that the K328 overpressure distance for the

**MAPS INCLUDED:**

Figure 1-1 Installation Location Map

Figure 1-2 MRS Location

Figure 1-3 Explosive Safety Quantity-Distance Arcs for Former Maneuver Area A MRS  
(FTBLS-002-R-01)

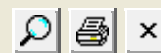
**FORMS INCLUDED:**

4.2 in M3A1 Mortar

4.2 in M329 (With Supplementary Charge) Mortar



# Fragmentation Data Review Form



Database Revision Date 4/2/2012

Category:

Munition:

Case Material:

Fragmentation Method:

Secondary Database Category:

Munition Case Classification:

DODIC:

Date Record Created:

Record Created By:

Last Date Record Updated:

Individual Last Updated Record:

Date Record Retired:

## Munition Information and Fragmentation Characteristics

Explosive Type:

Explosive Weight (lb):

Diameter (in):

Cylindrical Case Weight (lb):

Maximum Fragment Weight (Intentional) (lb):

Design Fragment Weight (95%) (Unintentional) (lb):

Critical Fragment Velocity (fps):

## Theoretical Calculated Fragment Distances

HFD [Hazardous Fragment Distance: distance to no more than 1 hazardous fragment per 600 square feet] (ft):

MFD-H [Maximum Fragment Distance, Horizontal] (ft):

MFD-V [Maximum Fragment Distance, Vertical] (ft):

## Overpressure Distances

TNT Equivalent (Pressure):

TNT Equivalent Weight - Pressure (lbs):

Unbarricaded Intraline Distance (3.5 psi), K18 Distance:

Public Traffic Route Distance (2.3 psi); K24 Distance:

Inhabited Building Distance (1.2 psi), K40 Distance:

Intentional MSD (0.0655 psi), K328 Distance:

Note: Per V5.E3.2.2.1 of DoD 6055.09-M the minimum sited K328 distance may be no smaller than 200 ft.

## Sandbag and Water Mitigation Options

TNT Equivalent (Impulse):

TNT Equivalent Weight - Impulse (lbs):

Kinetic Energy  $10^6$  (lb-ft<sup>2</sup>/s<sup>2</sup>):

### Single Sandbag Mitigation

Required Wall & Roof Thickness (in):

Expected Max. Throw Distance (ft):

Minimum Separation Distance (ft):

### Double Sandbag Mitigation

Required Wall & Roof Thickness (in):

Expected Max. Throw Distance (ft):

Minimum Separation Distance (ft):

### Water Mitigation

Minimum Separation Distance (ft):

Water Containment System:

Note: Use Sandbag and Water Mitigation in accordance with all applicable documents and guidance. If a donor charge larger than 32 grams is utilized, the above mitigation options are no longer applicable. Subject matter experts may be contacted to develop site specific mitigation options.

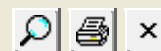
## Minimum Thickness to Prevent Perforation

	Intentional	Unintentional
4000 psi Concrete (Prevent Spall):	<input type="text" value="11.03"/>	<input type="text" value="4.85"/>
Mild Steel:	<input type="text" value="1.97"/>	<input type="text" value="0.90"/>
Hard Steel:	<input type="text" value="1.62"/>	<input type="text" value="0.74"/>
Aluminum:	<input type="text" value="3.98"/>	<input type="text" value="1.90"/>
LEXAN:	<input type="text" value="8.37"/>	<input type="text" value="5.15"/>
Plexi-glass:	<input type="text" value="6.80"/>	<input type="text" value="3.57"/>
Bullet Resist Glass:	<input type="text" value="5.87"/>	<input type="text" value="2.87"/>

## Item Notes

Distribution authorized to the Department of Defense and U.S. DoD contractors only for Administrative-Operational Use (17 October 2002). Other requests shall be referred to the Chairman, Department of Defense Explosives Safety Board, Room 856C, Hoffman Building I, 2461 Eisenhower Avenue, Alexandria, VA 22331-0600.

# Fragmentation Data Review Form



Database Revision Date 4/2/2012

Category:

Munition:

Case Material:

Fragmentation Method:

Secondary Database Category:

Munition Case Classification:

DODIC:

Date Record Created:

Record Created By:

Last Date Record Updated:

Individual Last Updated Record:

Date Record Retired:

## Theoretical Calculated Fragment Distances

HFD [Hazardous Fragment Distance: distance to no more than 1 hazardous fragment per 600 square feet] (ft):

MFD-H [Maximum Fragment Distance, Horizontal] (ft):

MFD-V [Maximum Fragment Distance, Vertical] (ft):

## Overpressure Distances

TNT Equivalent (Pressure):

TNT Equivalent Weight - Pressure (lbs):

Unbarricaded Intraline Distance (3.5 psi), K18 Distance:

Public Traffic Route Distance (2.3 psi); K24 Distance:

Inhabited Building Distance (1.2 psi), K40 Distance:

Intentional MSD (0.0655 psi), K328 Distance:

Note: Per V5.E3.2.2.1 of DoD 6055.09-M the minimum sited K328 distance may be no smaller than 200 ft.

## Minimum Thickness to Prevent Perforation

	<u>Intentional</u>	<u>Unintentional</u>
4000 psi Concrete (Prevent Spall):	<input type="text" value="10.84"/>	<input type="text" value="4.79"/>
Mild Steel:	<input type="text" value="1.93"/>	<input type="text" value="0.88"/>
Hard Steel:	<input type="text" value="1.59"/>	<input type="text" value="0.73"/>
Aluminum:	<input type="text" value="3.91"/>	<input type="text" value="1.88"/>
LEXAN:	<input type="text" value="8.26"/>	<input type="text" value="5.12"/>
Plexi-glass:	<input type="text" value="6.68"/>	<input type="text" value="3.54"/>
Bullet Resist Glass:	<input type="text" value="5.76"/>	<input type="text" value="2.85"/>

## Item Notes

## Munition Information and Fragmentation Characteristics

Explosive Type:

Explosive Weight (lb):

Diameter (in):

Cylindrical Case Weight (lb):

Maximum Fragment Weight (Intentional) (lb):

Design Fragment Weight (95%) (Unintentional) (lb):

Critical Fragment Velocity (fps):

## Sandbag and Water Mitigation Options

TNT Equivalent (Impulse):

TNT Equivalent Weight - Impulse (lbs):

Kinetic Energy  $10^6$  (lb-ft<sup>2</sup>/s<sup>2</sup>):

### Single Sandbag Mitigation

Required Wall & Roof Thickness (in):

Expected Max. Throw Distance (ft):

Minimum Separation Distance (ft):

### Double Sandbag Mitigation

Required Wall & Roof Thickness (in):

Expected Max. Throw Distance (ft):

Minimum Separation Distance (ft):

### Water Mitigation

Minimum Separation Distance (ft):

Water Containment System:

Note: Use Sandbag and Water Mitigation in accordance with all applicable documents and guidance. If a donor charge larger than 32 grams is utilized, the above mitigation options are no longer applicable. Subject matter experts may be contacted to develop site specific mitigation options.

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